

House & Garden

LIBRARY OF HAWAII

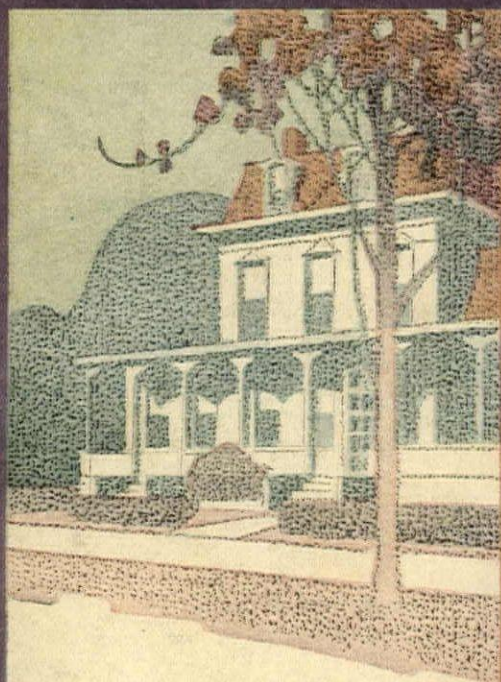
CIRCULATING

DISCARDED

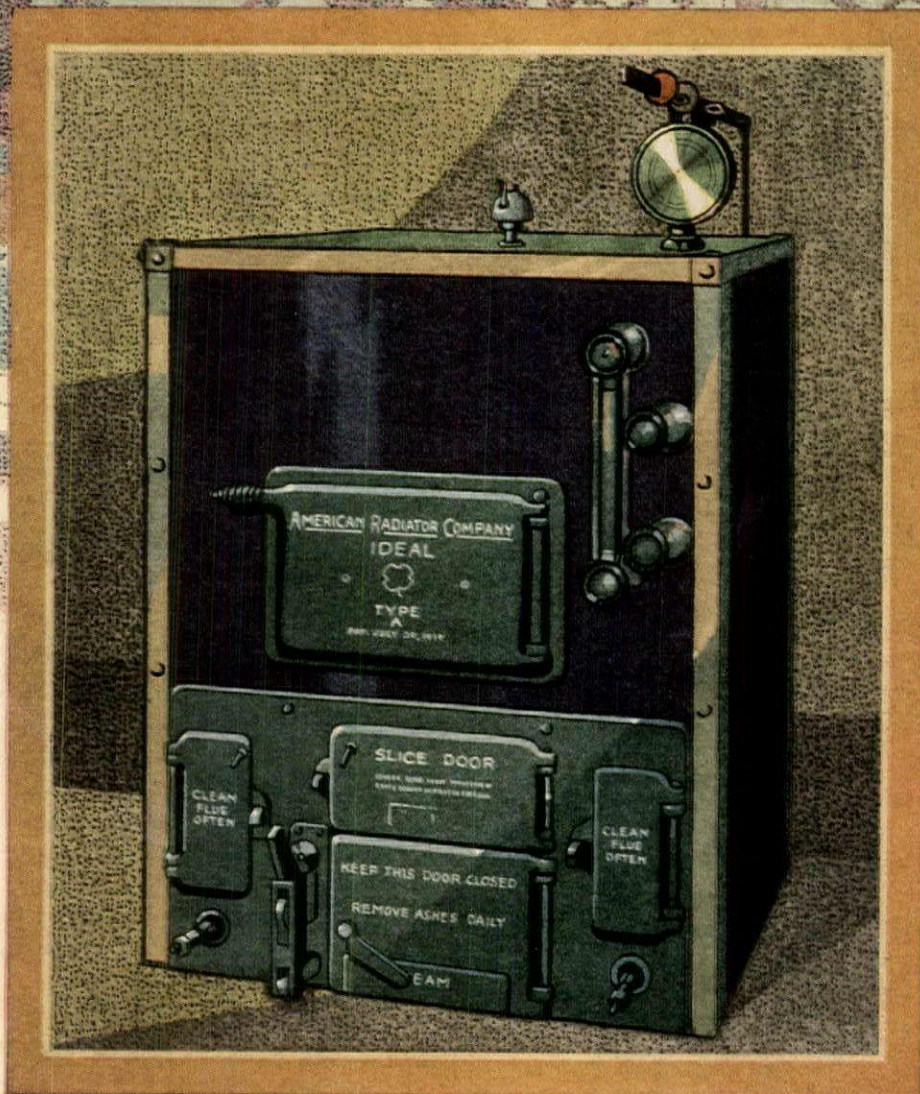


Robert S. Galt

Spring Gardening Guide



TO OWNERS OF HOMES, new or old, who are interested in improving their warmth and reducing their fuel bills at least one-third, we offer a finely illustrated book about the IDEAL TYPE A HEAT MACHINE. It will be mailed on receipt of your request at either address below.



From a painting by ARTHUR KELLY

© ARCO 1923

"ALMOST HUMAN"—says Mr. Goodall

EDWIN GOODALL of Hackensack, N.J., took out his old-fashioned wasteful heating plant and installed an IDEAL TYPE A BOILER.

"I am told you call it a 'Heat Machine,'" he writes. "I call it almost human; its appetite is exceedingly considerate of my pocket-book."

Without any reflection on the human race,

we beg leave to point out one respect in which the IDEAL TYPE A is *more than human*.

The human aristocrat frequently proves to be an expensive guest. The IDEAL TYPE A HEAT MACHINE—an aristocrat in every other detail—not only does better work than a plebeian boiler but does it at a very much smaller cost.

Thousands of owners have found, like Mr. Goodall, that it pays for itself in the fuel it saves.

AMERICAN RADIATOR COMPANY

IDEAL Boilers and AMERICAN Radiators for every heating need

104 West 42nd Street, Dept. 29
NEW YORK

AMERICAN IDEAL
RADIATORS BOILERS

816 So. Michigan Ave., Dept. 29
CHICAGO



Res. Jay M. Cogan, Canton, Ohio
Arch't-Chas. E. Firestone, Canton
Bishopric used on exterior

Homes that Owners
are Always Proud of

Stucco has always been recognized as the most beautiful finish for a home. There is a charm about it that is not found in any other material.

BISHOPRIC STUCCO OVER BISHOPRIC BASE

is finished in many beautiful combinations of color—Alba White, Shell Pink, Sienna Buff, Ivoril Cream, Granistone Gray, French Gray, or any special color one may desire.

BISHOPRIC STUCCO blends with shrubbery and woodland; it gives to the house a richness and dignity that makes for lasting pride of possession.

The economic worth of BISHOPRIC STUCCO over BISHOPRIC BASE possessing unusual insulating qualities cannot be over-estimated.

Its density and water-proof qualities, with enormous tensile strength, endurance and artistic merit are written indelibly upon walls inside and outside of homes built of BISHOPRIC.

We have "Bishopric For All Time and Clime", a booklet for you containing facts and figures, and illustrated with photographs of beautiful homes built with BISHOPRIC. Write for it.

THE BISHOPRIC MFG. CO.

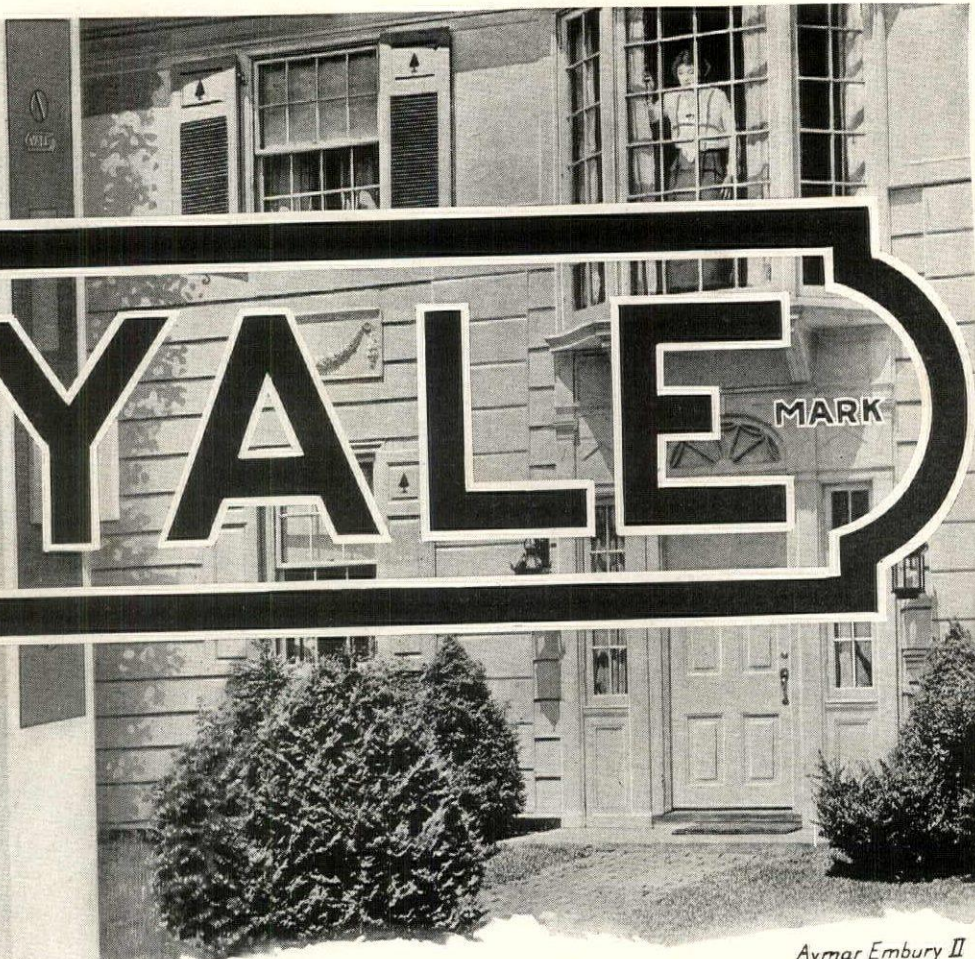
624 Este Avenue, Cincinnati, Ohio.

N. Y. City Office:

2848 Grand Central Ter.

Factories
Cincinnati, O.
Ottawa, Canada.





Aymar Embury II
Architect

Protected by a name

THE inevitable sense of security instinctively felt when you are protected by YALE-marked locks is based upon very much more than mere outward appearance. You *know* that a Yale lock is worthy of confidence because it is marked YALE; and no lock so marked has ever broken faith.

Many other locks *look* like Yale; they closely resemble Yale locks so far as you can see—except for the name.

Back of that name, plainly marked on every Yale-made product, is mechanical excellence and careful workmanship to the smallest screw or lever. That alone gives the *certainty* of assured protection and continuous satisfying service.

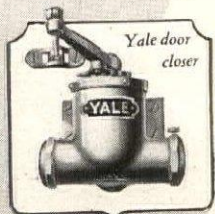
And the distinction of Yale hardware does not stop with security. You will find artistic expression as well, in the exquisite designs of wrought brass or bronze to enhance the beauty of every home.

Yale hardware expresses taste and individuality. YALE guarantees security. See that your home is so protected. Yale products are sold by hardware dealers everywhere.

The Yale & Towne Manufacturing Co.

Stamford, Conn., U. S. A. Canadian works at St. Catharines, Ont.

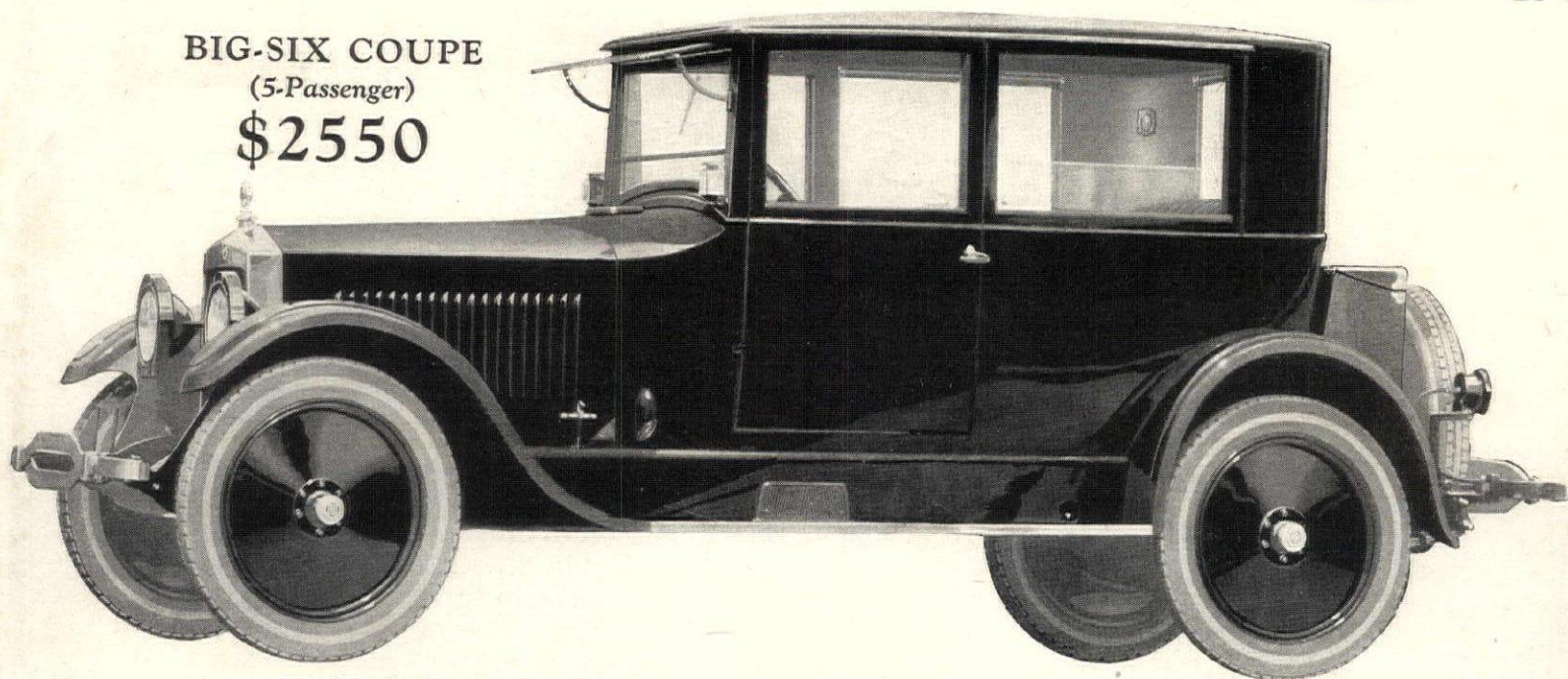
YALE MADE IS YALE MARKED



Padlocks, Night Latches, Dead Locks, Builders' Locks and Trim, Cabinet Locks, Trunk Locks, Automobile Locks, Bank Locks, Prison Locks, Door Closers, Electric Industrial Trucks, Chain Blocks, Electric Hoists, Trolleys

STUDEBAKER

BIG-SIX COUPE
(5-Passenger)
\$2550



Studebaker has gone far beyond current practice to make the Big-Six Five-Passenger Coupe a motoring feature of the year.

The interest which it has attracted at the shows indicates it will be one of the most popular fine car models.

There is no compromise in its appearance or construction. Studebaker has incorporated every important improvement known to quality manufacture to make this Coupe as fine a five-passenger car as is purchasable.

Lines are long and low; windows exceptionally wide; cushions deep and soft. Upholstery is in rich brown velour, with carpeting to match.

The full width rear seat accommodates three adults. The auxiliary seat beside the driver is in reality a cushioned arm

chair and will be found restful even for long-distance travel.

The equipment of this luxurious car is as exceptional as its appearance and performance. Extra disc wheel and tire, commodious trunk, walnut all-wood steering wheel with new type spark and throttle control—these are among many unusual features.

The quality is high—better materials, design and workmanship than Studebaker employs are not obtainable.

Reliability and long life are assured—50,000 Big-Six owners testify to the faithfulness and stamina of the Big-Six chassis.

The character of its products, maintained for 71 years, has made Studebaker the world's largest manufacturer of six-cylinder cars.

Extra disc wheel complete with cord tire, tube and tire cover. Handsome nickel-plated bumpers, front and rear. Trunk and trunk cover. Automatic windshield cleaner. Rear-view mirror. Combination stop-and-tail light, courtesy light and handsome

coach lamps. Nickel-plated radiator shell, motometer with lock and ornamental radiator cap. Quick-action cowl ventilator of cast aluminum. Aluminum-bound running boards with corrugated rubber mats and step pads. Aluminum kick plates. Glare-

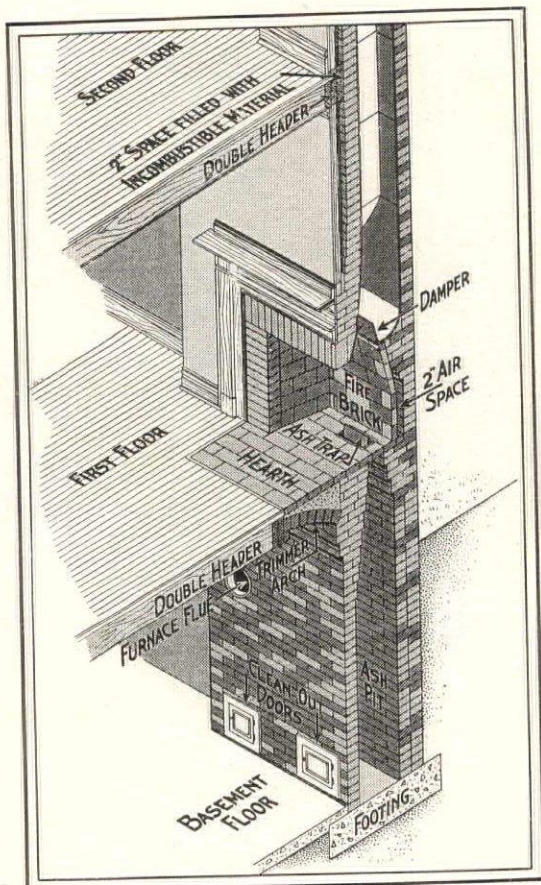
proof glass visor. Walnut steering wheel and improved type spark and throttle control. Heater. Flower vase. Snubbers. Opalescent corner reading lights. Jeweled eight-day clock. Upholstery of rich, dark brown velour.

1923 MODELS AND PRICES — f. o. b. factories		
LIGHT-SIX 5-Pass., 112" W. B., 40 H. P.	SPECIAL-SIX 5-Pass., 119" W. B., 50 H. P.	BIG-SIX 7-Pass., 126" W. B., 60 H. P.
Touring.....\$ 975	Touring.....\$1275	Touring.....\$1750
Roadster (3-Pass.)..... 975	Roadster (2-Pass.)..... 1250	Speedster (5-Pass.)..... 1835
Coupe-Roadster (2-Pass.)..... 1225	Coupe (4-Pass.)..... 1875	Coupe (4-Pass.)..... 2400
Sedan..... 1550	Sedan..... 2050	Coupe (5-Pass.)..... 2550
		Sedan..... 2750

THE STUDEBAKER CORPORATION OF AMERICA, South Bend, Indiana

Studebaker

THIS IS A STUDEBAKER YEAR



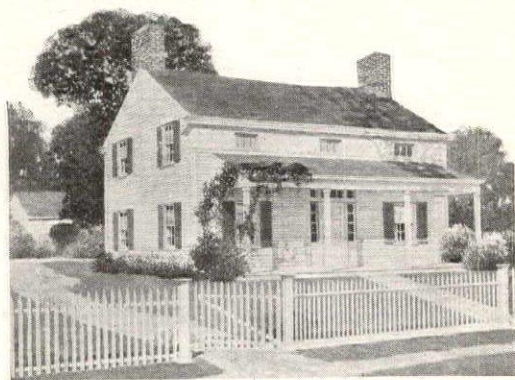
At some time into the life of almost every couple there comes an alluring picture of winter nights around a fireplace in a home of their own.

The success of a fireplace depends upon its construction—good footings, proper size in flues and openings, a good throat and damper, adequate smoke chamber, elimination of fire hazard.

A complete explanation of the illustration above, together with other vital information about building a fireplace, will be found on pages 42 and 43 in "The High Cost of Cheap Construction."

The fireplace is one of the essentials of a sound house on which the "low-bid" contractor is likely to skimp.

In selecting your contractor you will find valuable help in "The High Cost of Cheap Construction," a booklet that explains the essentials of correct building practices in language that any home-builder can understand. Sent free on request.



Combined Colonial and Neo-Grec Styles

THIS style of architecture is a blending of Colonial tradition with Greek forms. It is another of the 16 architectural styles, illustrated and discussed in "Good Houses," a book for home-builders interested in good design and efficient planning. Sent free on request.

Things You Should Know About Your Contractor

ONE important thing every home-builder should realize is that his house will be good or cheap, depending on his attitude in selecting his contractor.

Here in a nutshell is the important consideration in choosing your contractor—of far greater consequence than mere comparison of bids. Does he use sound construction methods? Or does he vary the quality of materials and workmanship to fit the price he feels he must set to get the job? If he is of the latter type, you will get no more than you pay for—perhaps less.

You will find that there is a type of contractor, who at the risk of losing out, always figures on a first-class job. He may not be the highest bidder, nor is he ordinarily the lowest. But he will give you a house, every inch of it sound, weatherproof, and free from annoyances and constant repairs—a house with a low rate of depreciation and a high resale value. Comfortable and satisfactory as long as you live in it.

This kind of contractor has your interests at heart. In the long run he is the cheapest and most satisfactory. That is why we say, go to a legitimate contractor. Why we have published "The High Cost of Cheap Construction" referred to on this page.

YOU will find this high type of contractor more and more demanding of the Weyerhaeuser standard of quality, trade-marked with the manufacturer's pledge of personal responsibility.

You will find too, that the dealer from whom he buys his lumber knows the value of thoroughly manufactured and properly dried lumber; and that he carries in his stock Weyerhaeuser lumber of the kinds and grades that meet building requirements in your locality most economically.

Weyerhaeuser Forest Products are distributed through the established trade channels (to contractors and home-builders through the retail lumber yards) by the Weyerhaeuser Sales Company, Spokane, Washington, with branch offices and representatives throughout the country.

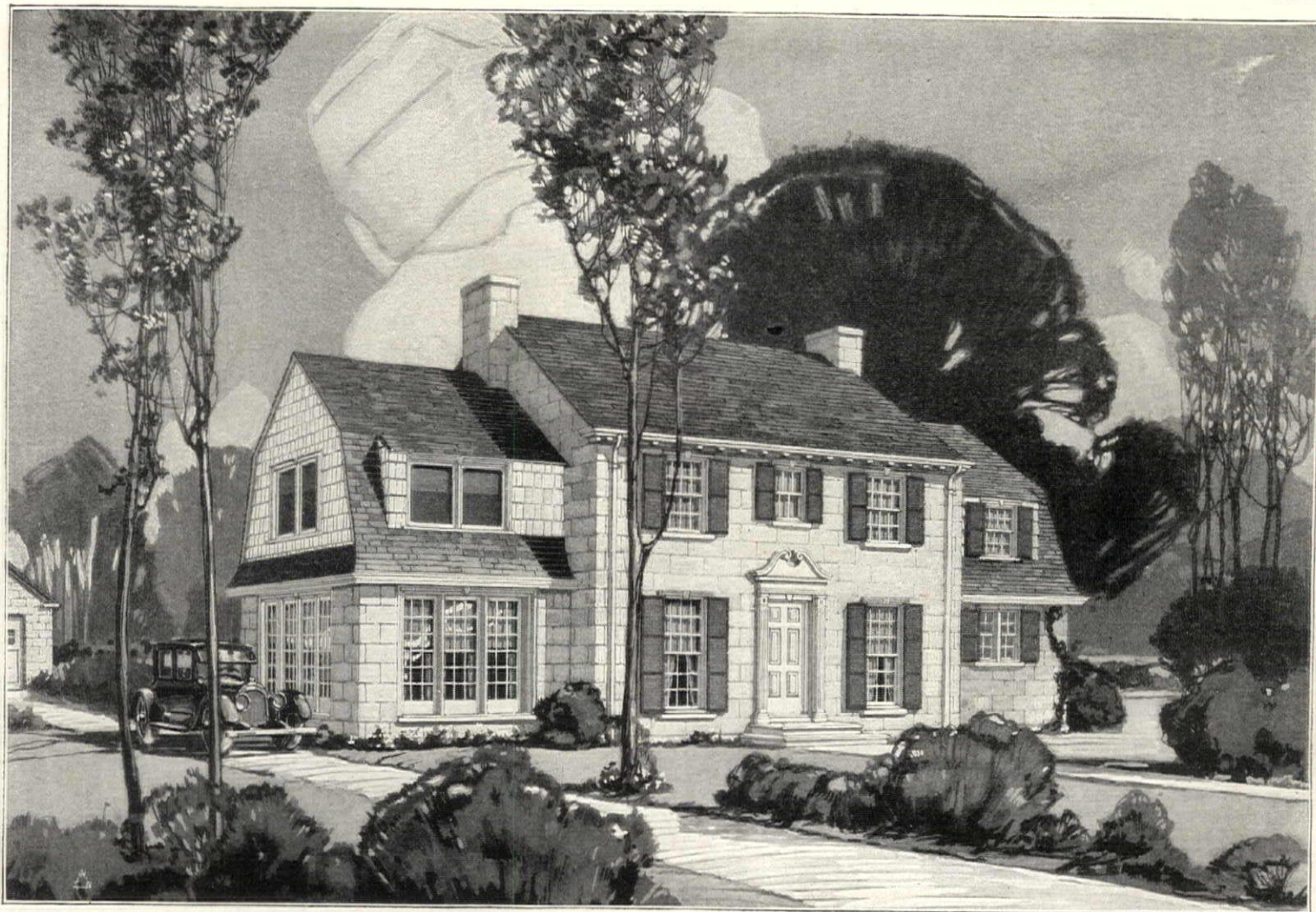


WEYERHAEUSER FOREST PRODUCTS

SAINT PAUL • MINNESOTA

Producers of Douglas Fir, Pacific Coast Hemlock, Washington Red Cedar and Cedar Shingles on the Pacific Coast; Idaho White Pine, Western Soft Pine, Red Fir and Larch in the Inland Empire; Northern White Pine and Norway Pine in the Lake States





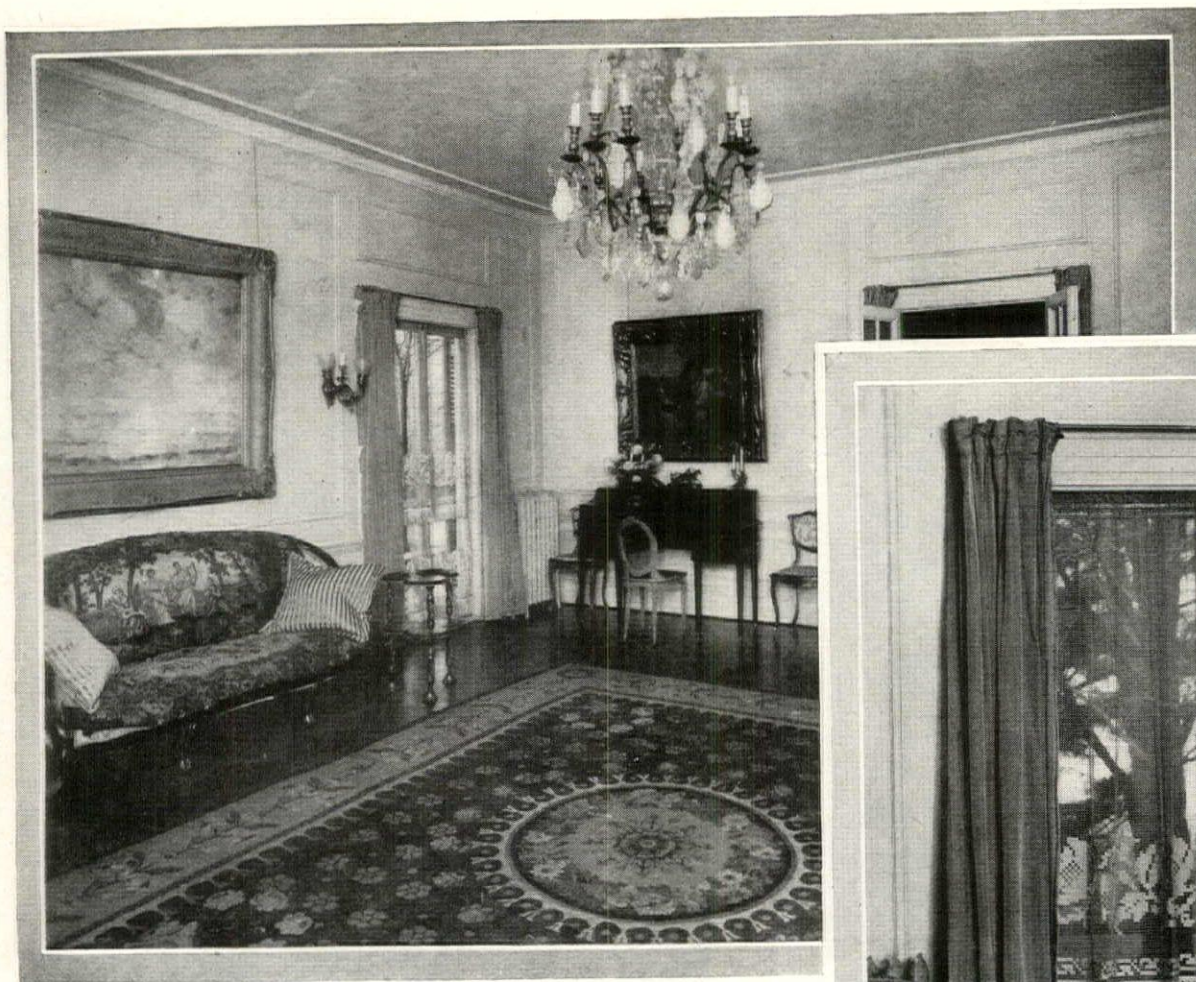
Give More Consideration to the Exterior of Your Home

Heretofore when the element of economy governed a home builder's plans, often the expenditure for the exterior construction was limited. The result was that on occasion when the owner wished to sell, in order to increase the marketable value of the home he found it necessary to spend large sums of money in rehabilitating the exterior.

Today the judicious builder realizes that by using Indiana Limestone for the exterior of his home, he is investing in a material that has real *permanent value*. And the difference in first cost over less desirable forms of construction is surprisingly small, when the stone is used in simple and straightforward manner, without elaborate detail. *The beauty is obtained from the material itself.*

*A folder descriptive of the house illustrated above,
showing floor plans, will be sent free upon request.
Address Indiana Limestone Quarrymen's Association,
Box 782, Bedford, Indiana*

INDIANA
LIMESTONE
The NATION'S BUILDING STONE



Mrs. Frank A. Vanderlip

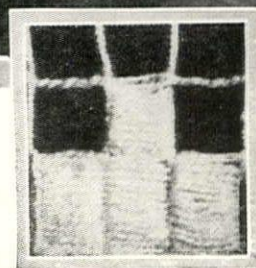
*Selects Filet Grandee for Her Home
At Scarborough-on-the-Hudson*

A FRENCH door presents an interesting drapery problem. To curtain it so that it takes its place in the decorative scheme of the room without interfering with its effectiveness as a door is difficult.

Mrs. Frank A. Vanderlip has found a happy solution in the use of Filet Grandee. You will notice how well this curtain of rich Italian design fits in with this stately room, at the same time permitting an uninterrupted view of the lovely grounds outside.

Booklets That Will Help You

Booklets "Concerning Window Draperies" and "Twelve New Ideas for Decoration" will be sent free if you mention the name of the best retailer handling window draperies in your city or shopping center. Otherwise, enclose 10 cents in stamps.



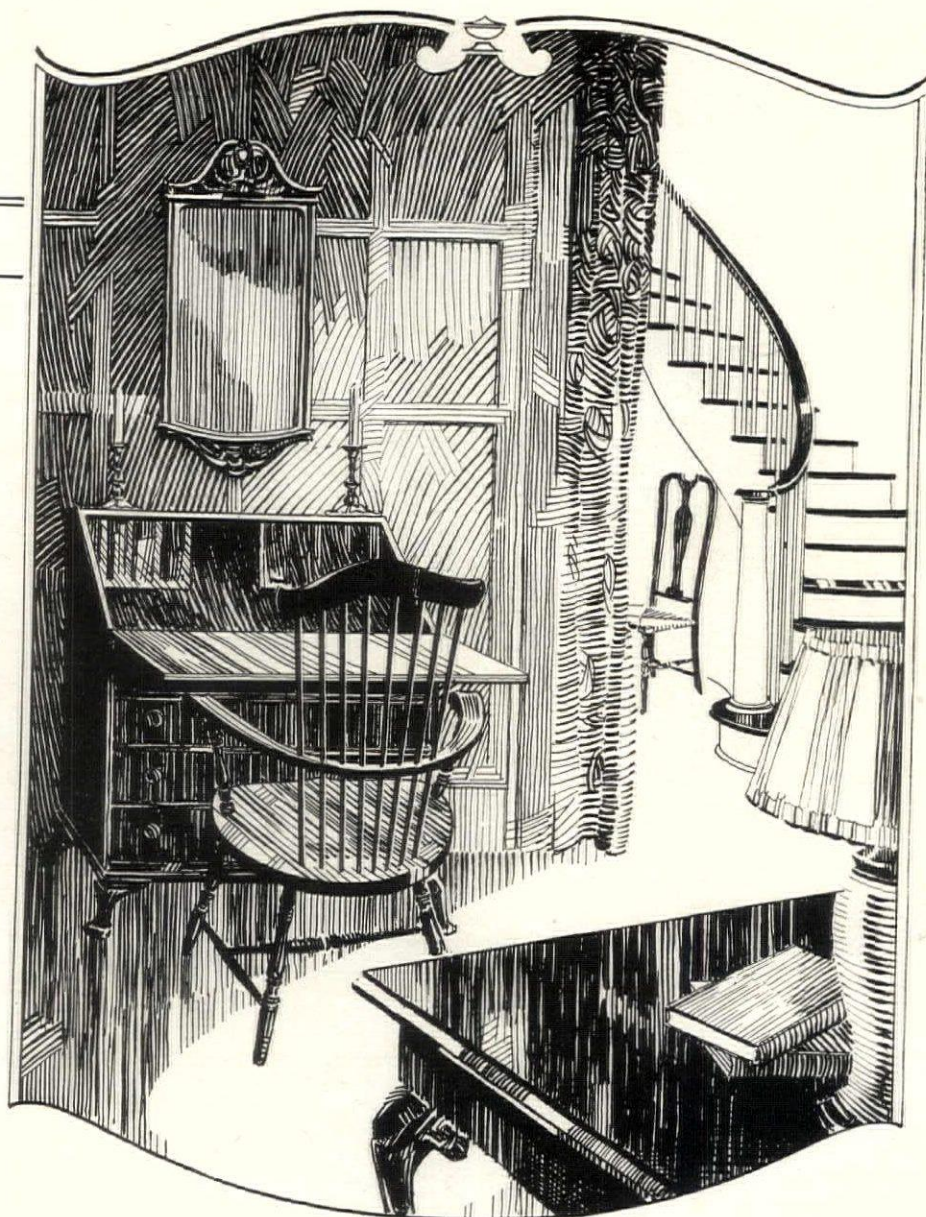
Actual size illustration of Filet Grandee. Note the character of the net ground and filling.



QUAKER LACE COMPANY

Mills: Philadelphia, Pa.

Wholesale Salesrooms: 890 Broadway, New York



“Around the Mahogany”

HEARTY hospitality, bringing memories of good cheer, comfort and warm welcome, is conveyed by the expression, “home”.

For home is where the heart is and, unconsciously, “home” expresses the refinement, culture and good taste of those who dwell within its walls.

Think how naturally Genuine Mahogany woodwork helps you to say hominess and hospitality! Its simple, figured surface, its mellow color and its air of well-bred charm convey the suggestion of simple dignity, so sought for in the home.

And it is such a fitting setting for Genuine Mahogany furniture.

One of the many reasons why Mahogany

should be especially considered at the present time for both furniture and interior woodwork is the fact that the difference in cost between Genuine Mahogany and other less beautiful cabinet woods is less today than it has ever been.

Bear this fact in mind if you contemplate building a new home, remodeling an old home, or refurnishing either.

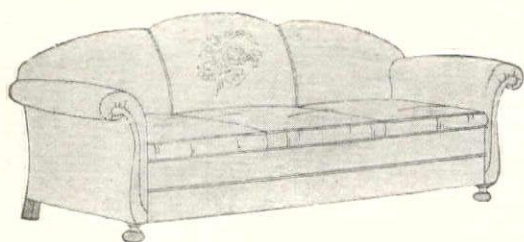
Our folder, the “Home Beautiful,” gives interesting facts and figures on interior woodwork. Our “Period Furniture” folders may help you in the selection of Genuine Mahogany Furniture. A postal card request will bring them to you, without cost.

after all—there’s nothing like

MAHOGANY



BEAUTY, COMFORT AND UTILITY



PULLMAN is essentially a beautiful davenport. As a living-room piece it excels in attractive appearance and grace of design. It is distinctly furniture of refinement—and will conform with your ideals of correct furnishings.

Although the general construction of a Pullman does not imply that it contains a full-size bed, one simple operation converts it into an "extra bedroom." The accommodation thus provided affords restful relaxation equivalent to the finest bed.

Pullmans are sold everywhere by better furniture dealers. Ask your dealer to show you the "perfect davenport bed."

We would like to send you, upon request, an interesting and instructive brochure on interior decorating

PULLMAN COUCH COMPANY

3759 S. Ashland Avenue

CHICAGO



ILLINOIS



Good Buildings Deserve Good Hardware



"I wish our locks worked like that."

"Yes, we are proud of our hardware—it's Corbin."

THAT'S the way with good hardware—the longer you live with it, the better you like it. Its beauty, its prompt, precise action, the sense of security it inspires in you when you "lock up" for the night—make it ever so worth while.

Good hardware is a long-term investment. For little more than you would pay for doubtful quality, you can have hardware that will make the most modest home a joy to live in—hardware that even the chance caller will recognize as worthy of its environment.

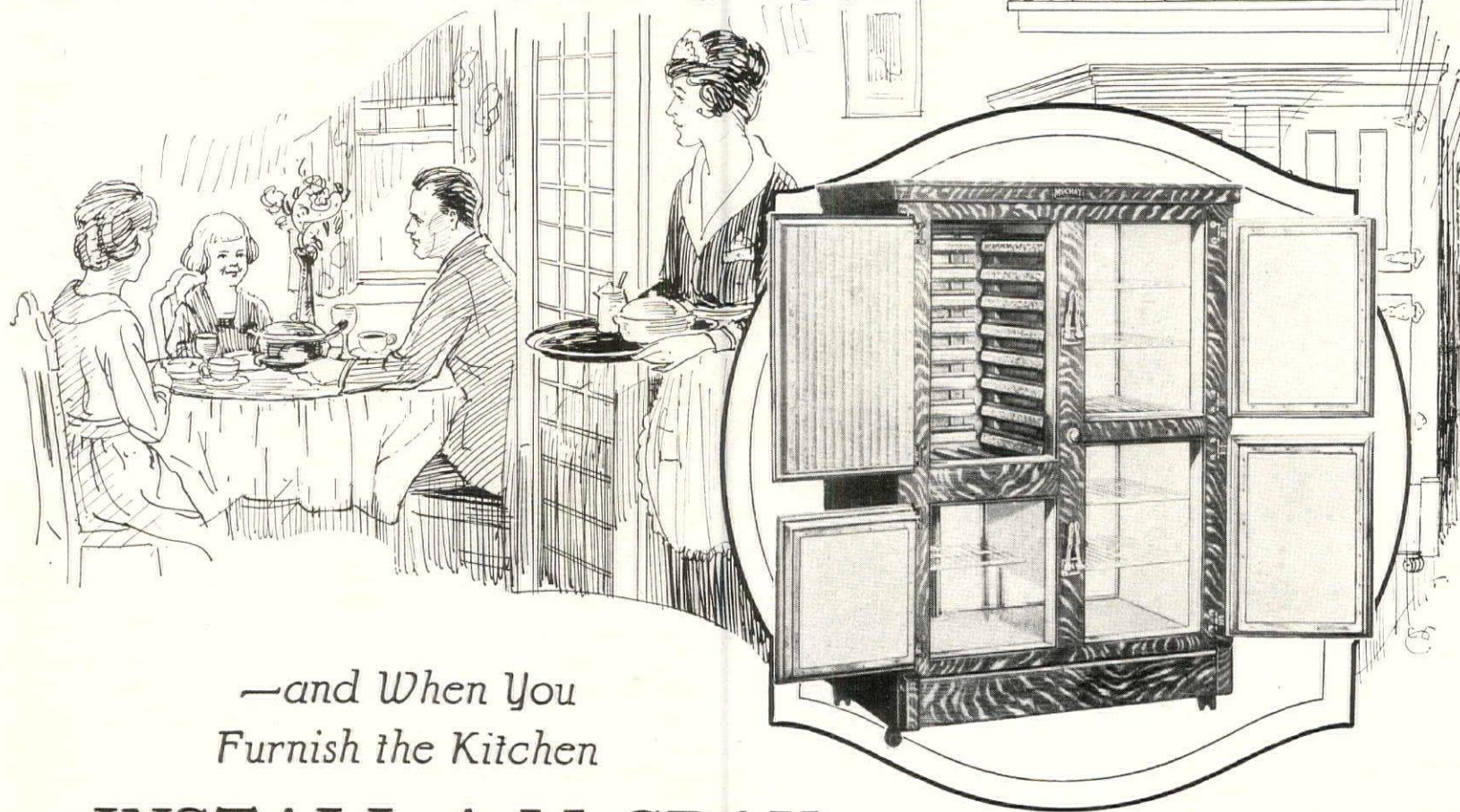
Today, more and more people are showing their contempt for shoddy building by insisting on good materials and good workmanship. These people know that Good Buildings deserve Good Hardware.

P. & F. CORBIN SINCE 1849 NEW BRITAIN CONNECTICUT
The American Hardware Corporation, Successor
New York Chicago Philadelphia

"Good Buildings Deserve Good Hardware" is a booklet you should read, if you are planning to build. Write for it.

McCRA Y

REFRIGERATORS



—and When You
Furnish the Kitchen

INSTALL A McCRAY

A McCRAY refrigerator in your home means wholesome, palatable meals—food kept temptingly fresh and appetizing. It means an end to waste through spoilage. And the family's health will be protected from the danger of contaminated foods.

For a constantly circulating current of pure, cold, dry air reaches every compartment of the McCray, maintaining a uniformly low temperature and keeping all foods in their original freshness and wholesomeness.

It is the patented McCray construction which maintains this current of pure air, sweeping through the refrigerator like a refreshing north breeze and keeping every corner clean, sweet, and thoroughly dry. Perfect insulation, highest quality mate-

rials, carefully selected, seasoned and manufactured with rigid devotion to every detail, make the McCray both efficient and economical. The ice consumption is exceedingly low, as any McCray user will tell you.

For a third of a century we have been making refrigerators of the highest grade, not only for residences but for all purposes. The name McCray has come to be recognized as the "sterling mark" on refrigerators.

There are styles and sizes for every home. Besides, we build to order equipment to meet special needs. Outside icing, originated and developed by McCray, available on all residence models. The McCray is adaptable for mechanical refrigeration.

Send the coupon now for further information.

McCRA Y REFRIGERATOR COMPANY

2313 Lake Street,

Kendallville, Ind.

McCray Refrigerator Co.
2313 Lake St., Kendallville, Ind.

Gentlemen: Please send me further information about your residence refrigerators, without obligation.

Name

Address

Am interested in refrigerators () for Grocers; () for Markets; () for Hotels and Institutions; () for Clubs; () for Florists.

McCRA Y REFRIGERATORS FOR ALL PURPOSES



"AND HERE IS YOUR BATHROOM"

When the hostess says simply, "And here is your bathroom," she is in fact saying, "The freedom of the house is yours. You need not shape your habits to ours, nor be fearful of incommoding us."

An additional bathroom often spells the difference between easy, gracious hospitality and embarrassed, apologetic hospitality. And when no guests are present it adds immeasurably to the comfort and convenience of every member of the family.

* * *

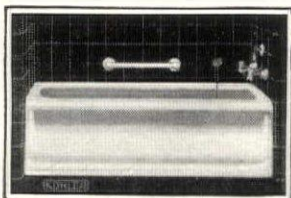
Let the capable plumbing dealer who sells Kohler Ware in your neighborhood show you how a model modern bathroom can be installed in a space as small as five feet by six, no larger than a good-sized closet. And let him demonstrate

in figures the reasonableness of the investment that will insure your obtaining the unsurpassed quality that every piece of Kohler Enamelled Plumbing Ware represents.

* * *

With a half-century tradition of excellence behind it, Kohler Ware is the recognized measure of worth in plumbing fixtures. You will find nothing more sightly than Kohler designs, nothing more certain to reward you with lasting satisfaction than Kohler fixtures with their enduring covering of uniformly white, glassy-hard enamel.

Let us send you our booklet describing Kohler Ware and offering interesting suggestions for the equipment of bathrooms, kitchens, and laundries.



Kohler "Viceroy" Built-in Bath, Recess Pattern, an admirable style for the small bathroom

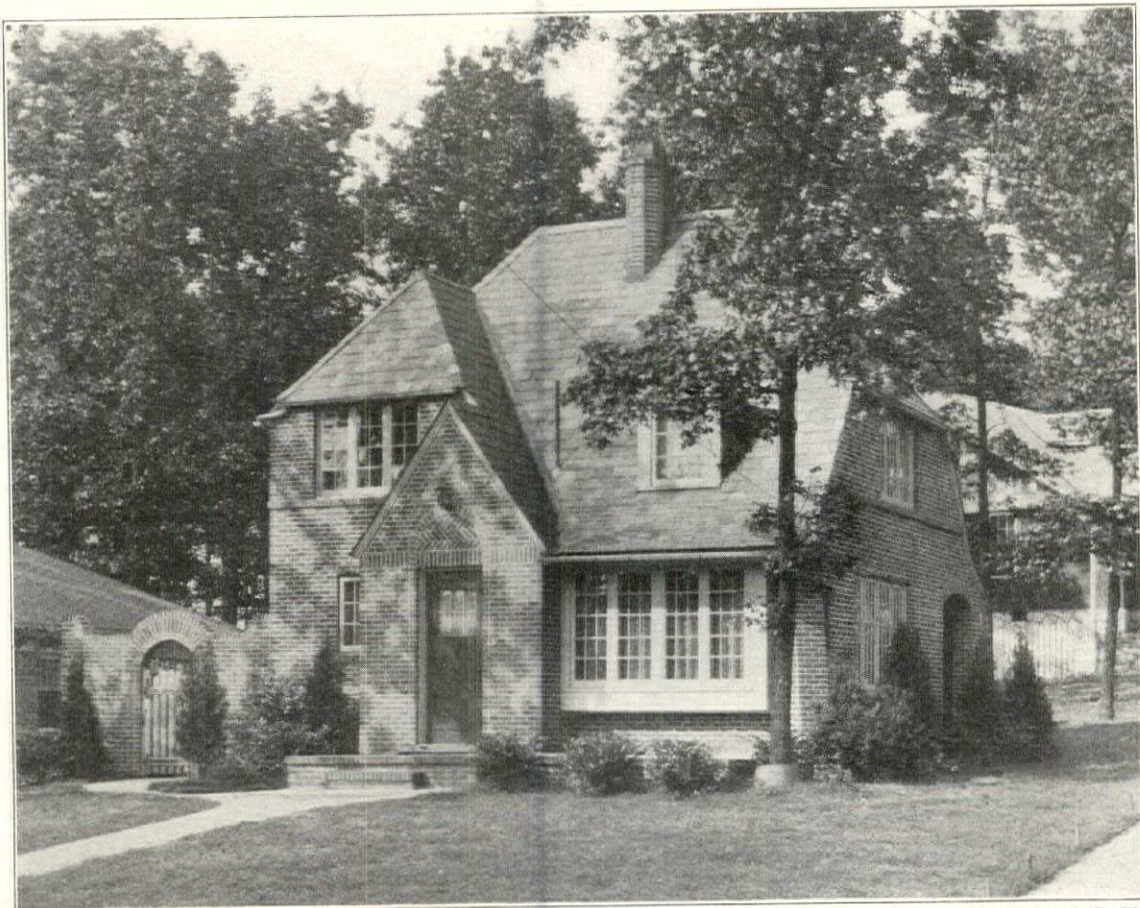
* * *

Every piece of Kohler Enamelled Plumbing Ware is exclusively distinguished for (1) the snowy whiteness of its durable enamel (2) the uniformity of this whiteness in every fixture (3) the name "Kohler" in dainty blue letters inconspicuously but permanently fused into the enamel for your protection

KOHLER OF KOHLER

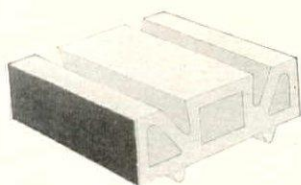
Kohler Co., Founded 1873, Kohler, Wisconsin . Shipping Point, Sheboygan, Wisconsin
BRANCHES IN PRINCIPAL CITIES

MANUFACTURERS OF ENAMELED PLUMBING WARE AND KOHLER AUTOMATIC POWER AND LIGHT 110 VOLT D.C.



Supervising Architects—Burge, Stevens & Conklin
Atlanta, Georgia.

Charm and Dignity Achieved in an Inexpensive “Fisklock” Home



THIS house is built of “Fisklock” Brick from a prize winning design by Floyd Yewell of New York in a competition of the American Face Brick Association. The terms specified a small house of *face brick* with “beauty achieved through simplicity”, and the illustration shows the successful result.

“Fisklock” is a two-in-one brick with the rough textured face and beautiful coloring of “Tapestry” Brick. Equivalent in size to two standard bricks, the ease with which it is handled makes it the most economical type of face brick construction.

Your house in addition to its beauty, permanence and economy of construction is protected against heat and cold by the insulating air spaces in “Fisklock” Brick.

Fiske & Company

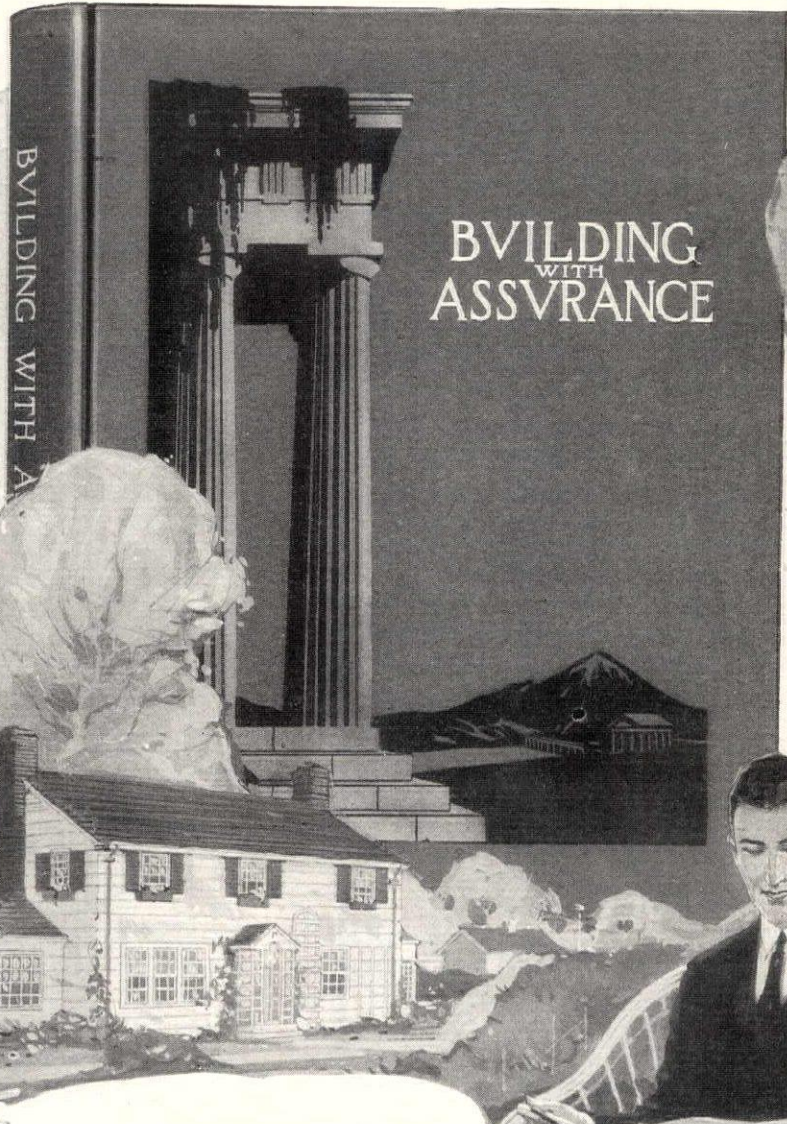
Incorporated

New York

Boston

Watsonstown, Pa.

There is no added cost for "Morgan-Quality"



© Copyright Morgan Co. 1923

Have this Book before you build

THOUSANDS of home-owners who have never been perfectly satisfied—who did not get all that they planned—who spent more money than was necessary—might have saved all their troubles and disappointments had they studied the many priceless things shown in "Building With Assurance"—the Master Book of Building. "Be sure you are right—then go ahead," should be the guiding star of home-builders.

Out of the fullness of many, many years of contact with thousands of home-builders, Morgan has produced the Master Book, "Building With Assurance." Men who know say in plainest words that "it is by far the most remarkable book of its kind." "Building With Assurance" is a guiding hand to lead the inexperienced, (and the experienced home-builder as well) past the mistakes that cost money and dissatisfaction.

"Building With Assurance" contains many pictures—in colors—of charming bungalows, cottages and dwellings, with

appropriate floor plans. Interiors, Stairways, Cabinets, Buffets, Porches, Pergolas, Arbors, etc. In addition there is priceless information from the best authorities in America on Home Heating, Modern Plumbing, Interior Decorations, Floor Coverings, Hardware, Paints and Finishes, Landscape Gardening, etc.

Never before has such valuable advice been placed within the covers of a single volume. It may save you hundreds of dollars and much disappointment.

MORGAN WOODWORK ORGANIZATION

"MORGAN-QUALITY"
STANDARDIZED WOODWORK

THE BOOK TELLS YOU

- how to select a building site
- how to choose materials wisely
- how to avoid dreaded "extras"
- how to insure a dry basement
- how to select hardware that harmonizes
- how to landscape your site
- how to choose satisfactory plumbing
- how to solve heating problems
- how to figure material costs
- how to plan ahead wisely
- how to get the most for your money

MAIL THE COUPON FOR OUR PROSPECTUS

"Building With Assurance" is for earnest home lovers only. Our prospectus tells all about it, reproduced actual pages, etc. and we will gladly send it to those who mail the coupon.

Address Nearest Office, Dept. A-3

Morgan Sash & Door Co., Chicago, Ill.
Morgan Millwork Co., Baltimore, Md.
Morgan Company, Oshkosh, Wisconsin.

Gentlemen:

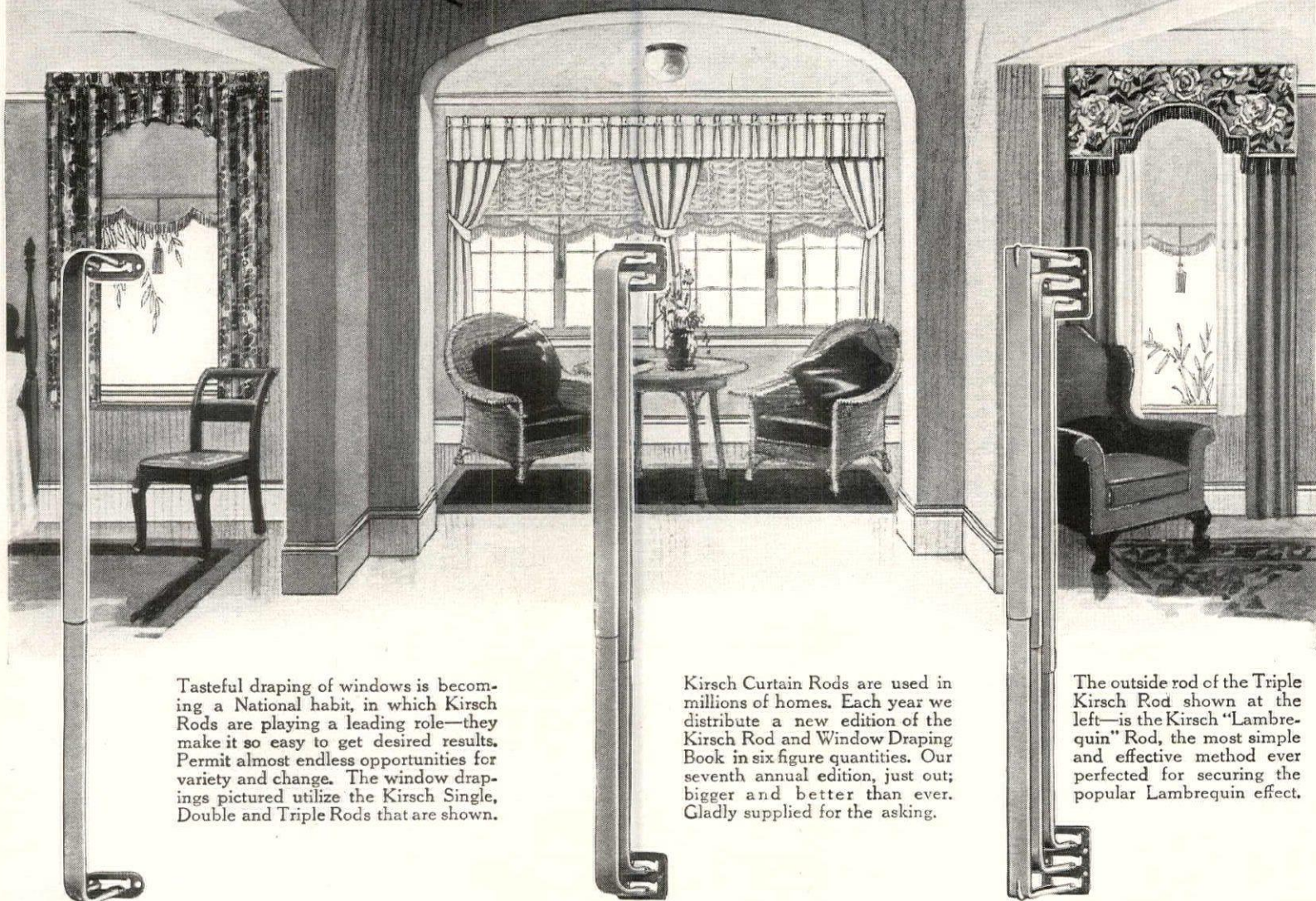
I am a home lover so please send me at once copy of your beautiful Prospectus which describes "Building With Assurance."

Name

Address

Town State

The Rod that Gets the Effect



Tasteful draping of windows is becoming a National habit, in which Kirsch Rods are playing a leading role—they make it so easy to get desired results. Permit almost endless opportunities for variety and change. The window drapings pictured utilize the Kirsch Single, Double and Triple Rods that are shown.

Kirsch Curtain Rods are used in millions of homes. Each year we distribute a new edition of the Kirsch Rod and Window Draping Book in six figure quantities. Our seventh annual edition, just out; bigger and better than ever. Gladly supplied for the asking.

The outside rod of the Triple Kirsch Rod shown at the left—is the Kirsch "Lambrequin" Rod, the most simple and effective method ever perfected for securing the popular Lambrequin effect.

Solve all Your Draping Problems by using

Kirsch

CURTAIN RODS

The FLAT SHAPE of Kirsch Rods insures sagless strength. They make simple window treatments neat and effective—simplify the elaborate window treatment. Come single, double or triple—provide a rod or combination of rods for every effect. Made extension style or cut-to-length, to fit any window.

The VELVETONE BRASS or VELVETONE WHITE finish fuses with the rod; stays like new for years. The Kirsch bracket has no rival for simplicity, strength and utility. Installed without defacing woodwork. Rods are attached or detached by merely tilting, yet they cannot come down accidentally.

Sold by Better Dealers Everywhere

**Free
Book**

Pictures Window
Treatments in
Colors

Suggestions for every window in the home; both simple and elaborate. With practical information as to materials, rods, color schemes, etc. Gladly mailed on request.



KIRSCH MFG. COMPANY, 241 Prospect Avenue, Sturgis, Mich., U.S.A.

Kirsch Mfg. Co. Canada, Ltd., 452 Tecumseh St., Woodstock, Ontario

Remember to ask for Kirsch - The Original Flat Curtain Rod.



"No Draughts or Dust—and Think of the Fuel we Save!"

At 12,000,000 windows and doors Chamberlin Metal Weather Strips seal out cold, stop draughts and end fuel waste. Chamberlin's own experts fit every installation. It is specialized work. Even "good mechanics" without proper training cannot do it right.

Save 25% to 40% on Fuel

They keep out dirt, dust and soot. They keep homes clean and save much tedious housework. Furnishings and decorations are protected. Chamberlin strips stop rattling of doors and windows.

They insure even heat. Keep all parts of the house warm. No more cold spots. No cold air currents. And you will be surprised at how little they cost.

End This Waste Permanently

Tests show the enormous waste of fuel at unprotected doors and windows. How simple to save it as growing thousands of good home managers are doing.

Chamberlin strips protect the health of the home, too. Children play in any part of the house without danger from draughts.

C H A M B E R L I N

Metal Weather Strips

Chamberlin Strips are used on 85% of all weather stripped buildings, including homes, banks, schools, office buildings, churches, stores, hotels and apartments.

They are guaranteed to last as long as the building. An estimate by our engineering department on the cost of your equipment, is free.

Just Send the Coupon

Chamberlin Metal Weather Strip Company, Detroit, Michigan

Chamberlin Metal Weather Strip Co., Detroit, Mich.
Tell me the cost of equipping my building with Chamberlin Metal Weather Strips (check whether home, factory, office building, church, school.)

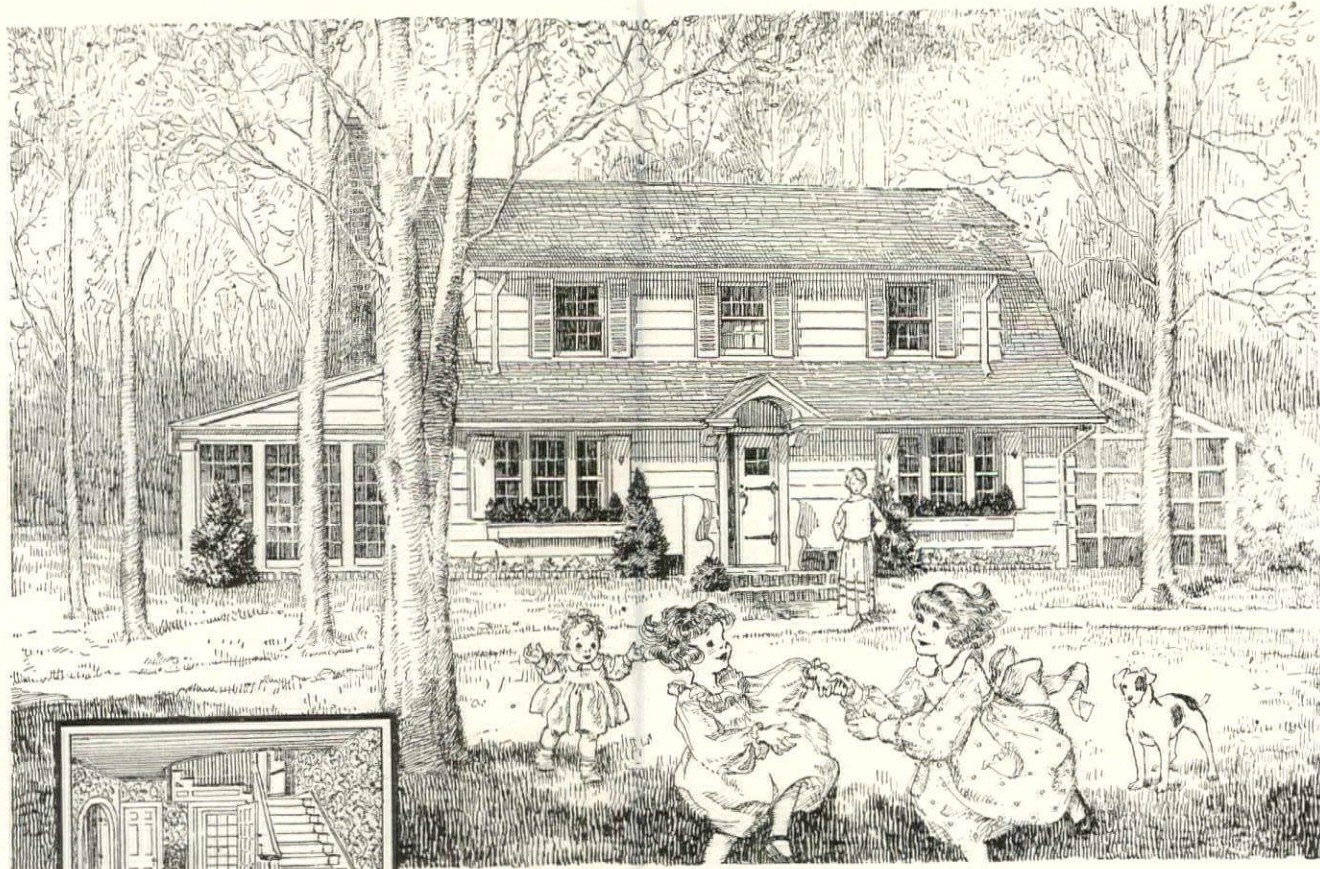
Give number of outside doors _____ windows _____

Name _____

Address _____

City and State _____

Eng. Dept. F-4



Spring Time Is Building Time

BREAK away from crowded quarters, elevators, janitors, leases and rent receipts. Build your own snug home in the open, among the trees, and let your youngsters hear the birds sing. You and yours will find it an investment in solid contentment, bringing you dividends of life-long happiness.

Arkansas Soft Pine

possessing certain natural individual qualities, is the one all'round wood for the house complete. Tough-fibred and staunch in the structure, clear and smooth on the outer walls, it pleases the eye [and purse] of the owner, responds wholly to the technique of the skilled artisan and — holds paint tenaciously.

Inside the house it delights the dictates of personal artistic taste with a rare beauty of figure and satin-like texture, requisite in a woodwork of genuinely superior merit, and serves under white enamel or richly colored stains to a degree of perfection seldom equalled at double its cost.

We'd like to send you the whole story told in your language, together with a dozen attractive house designs of moderate cost — a book that is yours for the asking. And if interested in white enamel be sure to advise.

Arkansas Soft Pine is Trade Marked and sold by dealers and planing mills east of the Rockies



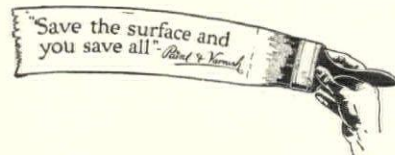
ARKANSAS SOFT PINE BUREAU

320 Boyle Building • Little Rock, Arkansas



PITCAIRN Water Spar Varnish

WATERPROOF and SOLEPROOF



In the stores of thousands of dealers you can see this aquarium test. Month after month a wood panel finished with Waterspar remains submerged in water. It is proof positive that water will not penetrate or turn this varnish white—or in any way injure the coated surface.



PATTON'S VELUMINA—
an oil flat wall paint—
gives walls that soft-
toned, velvety effect.
Can be washed. White
and 16 colors.

Here's a Test that means a Lot to You

IN the stores of thousands of quality dealers you can see the Waterspar aquarium test. Month after month a wood panel finished with Pitcairn Waterspar Varnish remains submerged in water. It is visible proof that water will not penetrate or turn this varnish white—or in any way injure the coated surface.

You know what that means. You have seen handsome floors marred by water. You have seen the finish of beautiful tables ruined by an overturned coffee cup or a misplaced percolator. You have noticed porch furniture peeling because of exposure to rain and weather.

Even boiling water will not mar the fine lustrous surface that Waterspar puts on floors, furniture and woodwork. It is not only a

finish of beauty, but beauty that *lasts*. For Waterspar is remarkably durable.

In addition to this transparent Waterspar there is also the fine Waterspar Colored Varnish which comes in eighteen attractive colors. It, too, resists wear to a remarkable degree and is also waterproof.

Both of these two high-grade varnishes are exceedingly easy to apply. Waterspar and a good brush—even in inexperienced hands—will do a good job. Manufactured by the Pittsburgh Plate Glass Company, maker of many products famous for high quality and perfect service. No matter what you need in the way of glass, paint or varnish products, the Pittsburgh Plate Glass Company manufactures something that will fill your requirements exactly. Handled by quality dealers.

Write for "Proof" Booklet.

PITCAIRN WATERSPAR
COLORED ENAMEL
assures you a rich,
mirror-smooth, wash-
able finish. Flows
freely. No brush
marks. Easily applied.



PATTON'S SUN-PROOF
PAINT resists action of
sun and weather. Very
durable and economical.

PITTSBURGH PLATE GLASS CO.

GLASS

Manufacturers

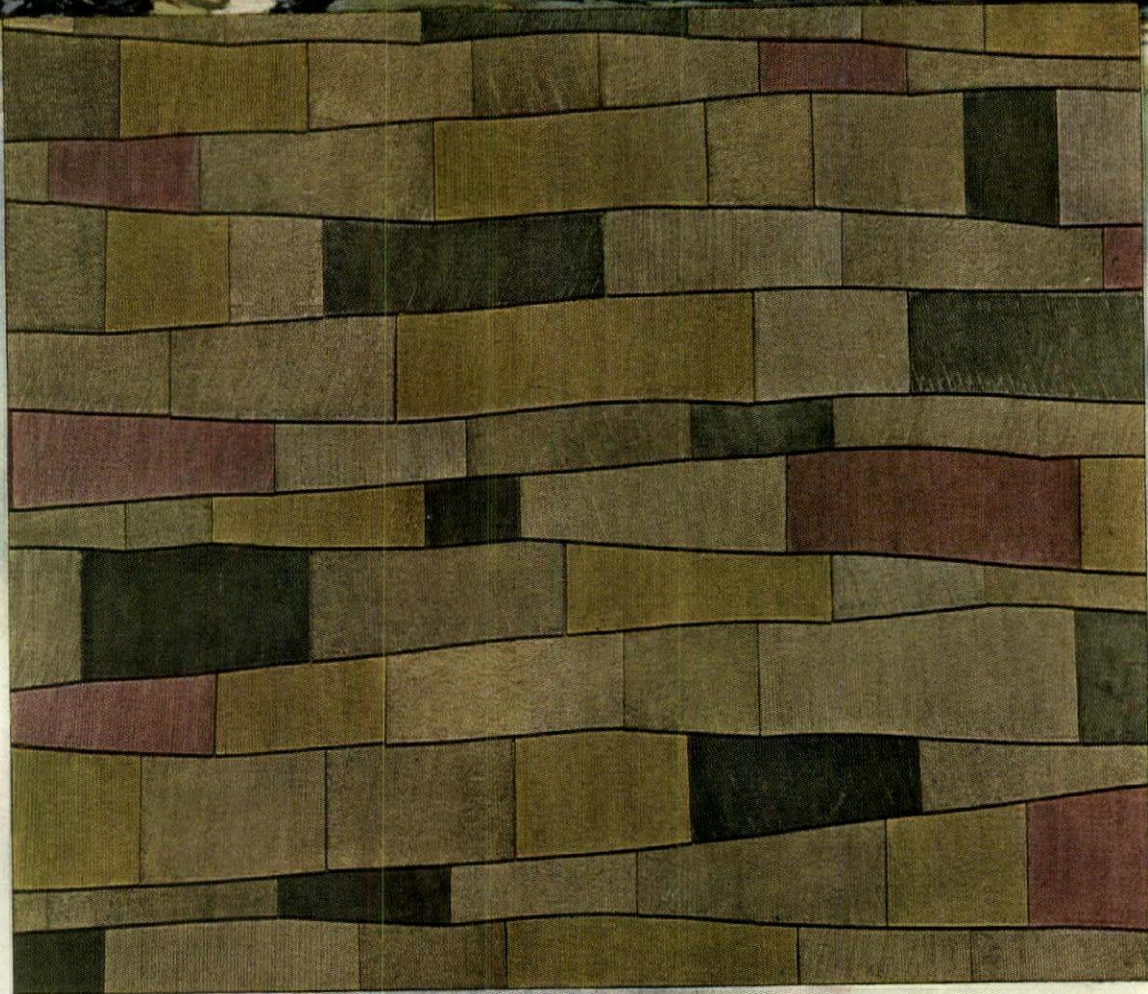
PAINT

Paint and Varnish Factories

Milwaukee, Wis. - Newark, N.J.



Architect N. Montgomery Woods, Ashbury Park, N. J., has used "CREO-DIPT" Stained Shingles, especially thatched, on many attractive homes. This Thatched Effect on his own home is unusual.



This Variegated Color effect is reproduced from actual shingles — 5 % Red, 5 % Green, and 90 % in three shades of Light, Medium and Dark Straw colors.

"CREO-DIPT" Thatch Roof, Weathered Straw

YOUR home will best express individuality with a careful selection of building materials. The roof, for example, need not be commonplace. This Thatched Effect is secured with "CREO-DIPT" Stained Shingles sawed with wavy butts and curved either with or across the grain to bend over eaves, dormers and gables.

Not only the texture of these "CREO-DIPT" Stained Shingles preserved with creosote and earth pigments ground in pure linseed oil,

but the actual quality of the shingles insures color effects not secured with other building material. The original waves of this thatched roof together with the soft lines over the rounded eaves, ridges and gables give architectural effects that are unusual.

For complete information concerning the Thatched Effect with "CREO-DIPT" Stained Shingles, see our working drawings and details. Send 25 cents in stamps for special book of "CREO-DIPT" Thatch Roof Homes.

For the use of regular "CREO-DIPT" Stained Shingles on roof and side walls, send 25 cents for Portfolio of Fifty Large Photographs of Homes of all sizes by Prominent Architects. Ask about long 24-inch "CREO-DIPT" Stained Shingles for wide shingle effect on side walls either in "Dixie White" or in shades of green, brown, red, or gray.

CREO-DIPT COMPANY, Inc.

1091 Oliver Street

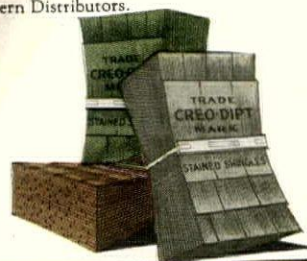
North Tonawanda, N. Y.

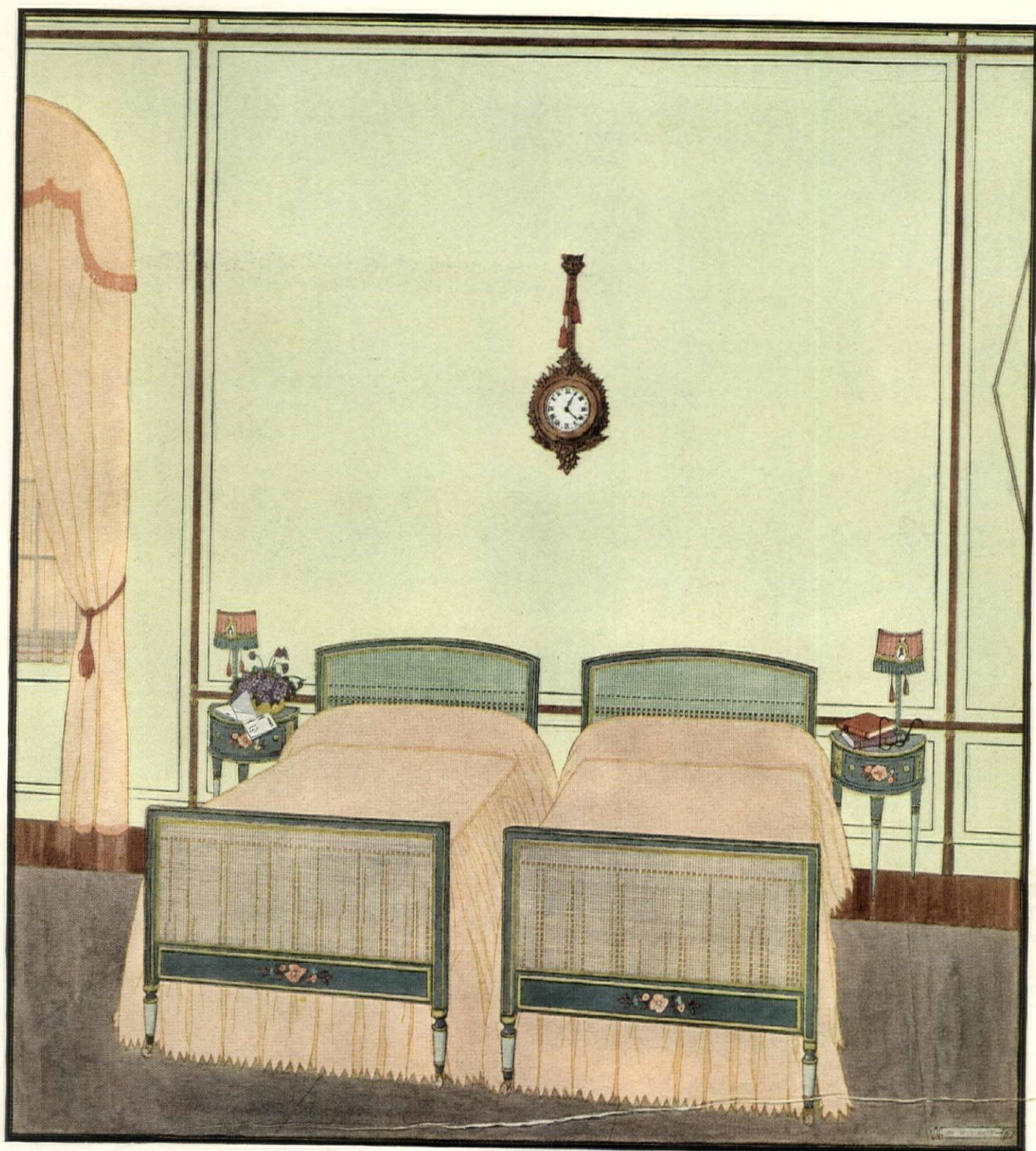
Sales Offices in Principal Cities. Many Lumber Dealers Carry Standard Colors in Stock. Plant at Minnesota Transfer, St. Paul for Western Distributors.



"CREO-DIPT"

Stained Shingles





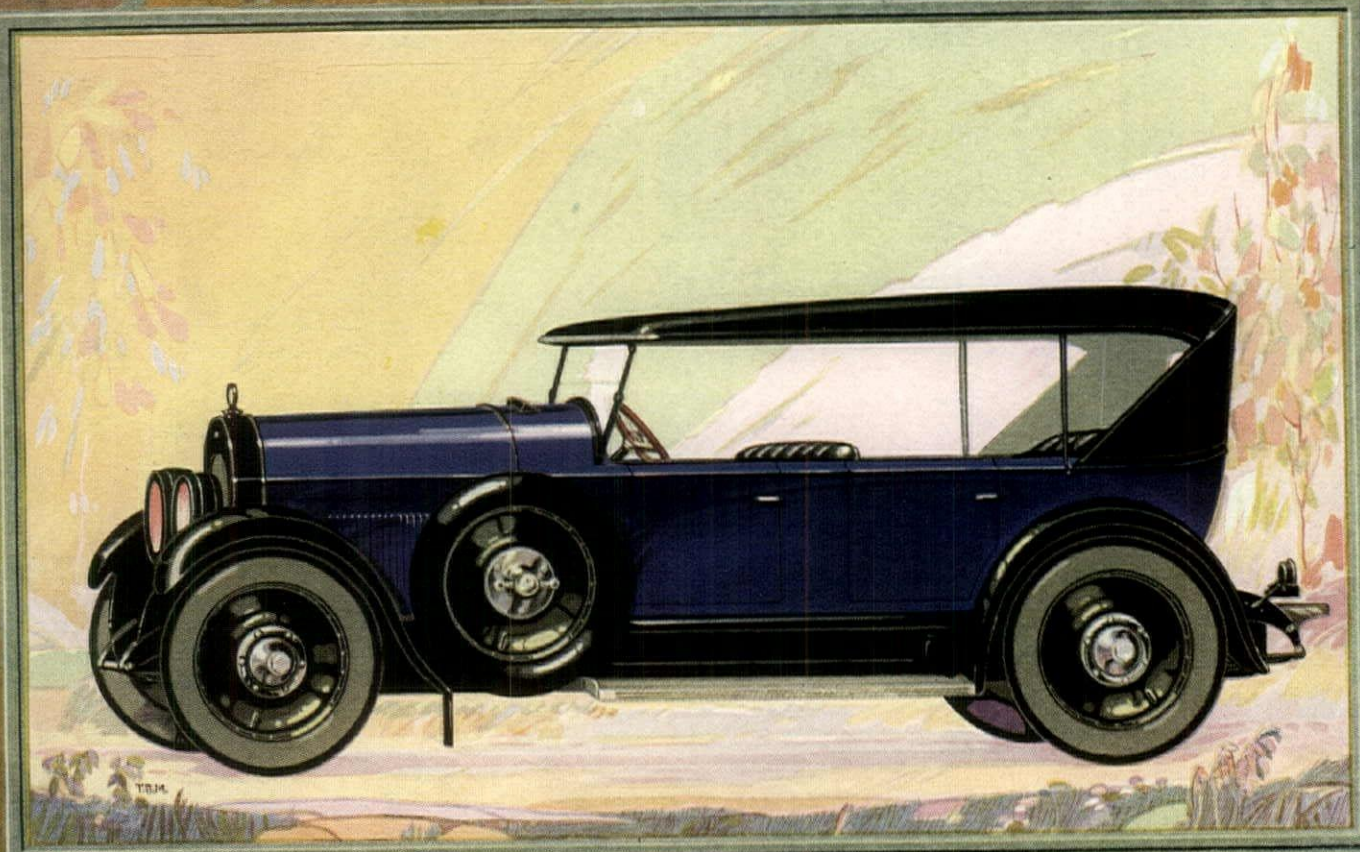
EXQUISITE color and form are vital elements in the new charm sought by American women in the furnishing of their homes. Simmons beds encourage and satisfy this eager search for harmony and finer values. The newest designs unite sheer beauty in lines, proportions and engaging color with notable utility at remarkably low prices.

For apartment chambers, country houses or modest cottages, there are Simmons beds to fit and enhance any color scheme and add spaciousness to any room. Simmons mattresses and springs, too, in many types and widths, all of high character, outstanding value and luxurious comfort, built for sleep.

THE SIMMONS COMPANY, Kenosha, Wis.

Pale apricot curtains and bed covers give the dominant color note to this enchanting bed chamber. Materials may be soft taffeta, poplin, repp or radium satin to suit the owner's budget. The wilton or chenille rug is warm gray. Green tinted walls; floors stained dull walnut. Night tables pale green or primrose. Beds are by Simmons, the Lakewood design, in soft jade green and old gold with panels in pale primrose. Or beds may be warm blue and matt gold with panels in soft turquoise.

S I M M O N S
Beds · Mattresses · Springs
BUILT FOR SLEEP



PHAETON
Four-Passenger

COLE

Eight Ninety

It has been the privilege
of the producers of the
Cole to incorporate in
its building those fea-
tures that mark it as

truly

A FINER CAR

—
COLE MOTOR CAR COMPANY
INDIANAPOLIS, U. S. A.

*There's a Touch of Tomorrow
in All Cole Does
Today*



Sheetrock

Reg. U. S. Pat. Off.

THE Fireproof WALLBOARD



The actual thickness of a sheet of Sheetrock is 3/8-in. of pure gypsum plaster

What it is: Sheetrock is a wallboard made of gypsum and gypsum is a rock. It is gypsum plaster cast in sheets. It is *fireproof, non-warping*, and rigid. It can be sawed and nailed. It takes any decoration: wall paper, paint or panels.

What it does: Sheetrock makes smooth-surfaced, tight-jointed, permanent walls and ceilings—standard walls and ceilings that keep rooms warm in winter and cool in summer. It makes walls and ceilings that are sound-proof, vermin-proof and fireproof.

Where it is used: Sheetrock is the economical wall and ceiling material for many types of new construction and for all remodeling, alterations and repairs. It is being used now in residences costing upward of \$20,000. It is just the thing for attic rooms, furnace rooms, fruit cellars, play rooms, garages, offices, stores, and warehouses.

How it is used: Sheetrock comes in broad, ceiling-high sheets, factory cast and uniformly gauged for smoothness and thickness. The carpenter simply nails the sheets to the joists or studding.

Who sells it: Your dealer in lumber or in builders' supplies sells Sheetrock. Ask him about it.

UNITED STATES GYPSUM COMPANY

General Offices: 207 West Monroe Street, Chicago

World's Largest Producers of Gypsum Products

Sheetrock is approved by The Underwriters' Laboratories, Inc.

UNITED STATES GYPSUM COMPANY

207 West Monroe Street, Chicago, Ill.

Gentlemen: I am thinking of building ☐ remodeling ☐ making repairs ☐

Please send me a free copy of your illustrated booklet, "Walls of Worth," and sample of Sheetrock.

Name.....

Address.....

Bathing in Running Water is a Delightful Sensation



THERE'S something about running water that appeals to all mankind—and womankind. It is suggestive of things that are fresh and clean. Possibly this is the reason why shower bathing soon becomes a fixed habit.

*You use the water once
and it runs off—*

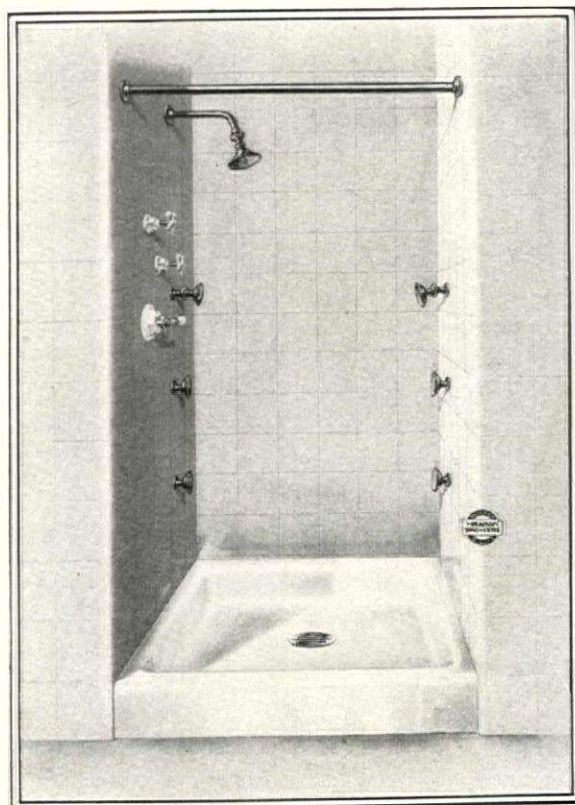
You are clean, delightfully so; and your muscles and skin have been massaged by scores of sparkling, invigorating sprays.

You will be interested in our booklet, "Once - Used Water." It is illustrated with various types of SPEAKMAN Showers and Fixtures for all kinds of bathrooms. When you write, would you mind mentioning your plumber's name?

SPEAKMAN COMPANY

Wilmington

Delaware



H952 1/2 Shower with Anyforce Head is shown on the left. The other is the H965 Shower and Needle Bath.

SPEAKMAN SHOWERS

What's the Difference Between a Cellar and a Basement?



"The Old Fashioned Cellar"

Easy Operation

Who hasn't been annoyed by warped, sticking cellar windows—equally hard to open and to close? Wood sash is bound to warp, swell, and shrink under the influence of weather; but the solid steel of Fenestra Basement Windows guarantees that *they* will always operate easily.

Greater Protection

The wood sash windows of the "cellar" can easily be forced from the outside; but Fenestra Basement Windows are practically proof against the burglar's "jimmy". More than that, their steel sections are fire-proof, as steel always is, and also weather-tight.

Long Life

Fenestra Basement Windows cannot rot or decay. They cannot be split or splintered when coal or other material is put through them.



DAYLIGHT—plenty of natural **LIGHT**—that's the greatest and most valuable difference.

"Cellar" is the old-fashioned word for the space beneath a house. That space, primarily intended for storage, has always had broader potential usefulness. But if you recall the dim, shadowy, ill-ventilated, and un-homelike under-spaces of some houses you have seen, you know that *they* have cellars—merely cellars.

Modern houses have "basements"—the right term for the accessible, homelike, lower-workroom; daylighted and made cheerful by Fenestra Basement Windows—the windows with large panes of glass framed in solid steel sash. *They* admit 80 percent more daylight; they are easier to operate than wood windows, provide greater protection; have longer life, look better—and their cost is low.

DETROIT STEEL PRODUCTS COMPANY, 2214 E. Grand Boulevard, DETROIT
For Canada: Canadian Metal Window & Steel Products, Ltd., 160 River Street, Toronto

Attractive Appearance

Fenestra Basement Windows make a decided improvement in the appearance of the lower part of the house. Thousands of modern homes already have Fenestra Basement Windows; look for them, in homes of every type and size where architectural detail is of the best.

Low Cost

You'd be willing, would you not, to pay considerably more for a real basement than for a cellar in your home? But that's not necessary. With all of their manifest advantages, Fenestra Basement Windows cost very little more than ordinary wood windows. Your contractor knows that they cost less to install.

Dealers Supply Them

Fenestra Basement Windows are stocked and sold by lumber and building supply dealers everywhere, and large stocks are warehoused throughout the country. This means that the home-builder who decides that he wants Fenestra Basement Windows can get them promptly.

Get This Booklet

Get *all* the facts about Fenestra Basement Windows before you build your new home. Write for the complete Fenestra story as told in our new booklet—it's free.

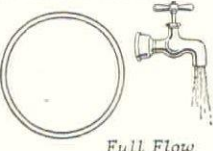
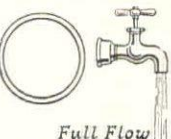






Fenestra

BASEMENT WINDOWS

Fenestra

The name of the ORIGINAL steel Window.

The symbol of superior QUALITY in material, patented design, workmanship and service.

¾ INCH IRON PIPE PLUMBING	½ INCH BRASS PIPE PLUMBING
NEW INSTALLATION  Full Flow	NEW INSTALLATION  Full Flow
 Diminished Flow Red Water	 Continued Full Flow
 Very Slight Flow Redder Water	 Continued Full Flow
 A Dribble, Leaks, No Flow At All REPLACEMENT YEAR	 Continued Full Flow
REPLACEMENT: AND THEN THE SAME THING ALL OVER AGAIN	UNINTERRUPTED, RUST-FREE, EXPENSE-PROOF SERVICE~ AS LONG AS THE BUILDING STANDS



Why You Can Get BRASS PIPE Plumbing At Almost the First Cost of Iron

PPIPE that does not rust. A full flow of clean water. Freedom from plumbing repair expense.

That means BRASS pipe.

Compare the cost of the smaller-size Brass pipe with the larger-size iron. You will find that you can get the trouble-free service of Brass pipe at almost the same first cost as iron.

Ask your architect or plumber. Send for "Brass Pipe Plumbing." Use the coupon.

*Brass and Copper are cheaper because
you pay for them only ONCE*

COPPER & BRASS
RESEARCH ASSOCIATION

25 Broadway - New York

Saving in Pipe Size by Use of Brass

Reasonable differences in diameter as between Brass and iron pipe for cold water lines are as follows:

½ inch Brass instead of	¾ inch iron
¾	1
1	1¼
1¼	1½
1½	2
2	2½

For hot water lines:

½ inch Brass instead of	1 inch iron
¾	1¼
1	1½
1¼	2
1½	2½
2	3

COPPER & BRASS RESEARCH ASSOCIATION
25 Broadway, New York

Please send me a copy of illustrated booklet on the advantages and low cost of BRASS PIPE PLUMBING.

Name.....

Street No.....

City..... State.....

H G

CURTIS WOODWORK



It is surprising how the addition of a china closet or the replacing of a door will enhance the appearance of a home. Good woodwork adds much to the appearance of a new house and to the value of an old one. Curtis woodwork has that quality and refinement of design which you would expect from a firm which has had 57 years of experience. It is so often imitated that it is wise to look for the trade mark on each piece—"1866," the year when we started with the intent to make the best possible woodwork, and "Curtis," the name we jealously guard by careful inspection of every piece produced. Look at the Curtis Catalog in your dealer's hands, or write the Curtis Companies Service Bureau, Clinton, Iowa.

1866

Why Not Improve the Old House With New Woodwork?

SOME people still think that all the woodwork in a house is laboriously constructed by carpenters on the job.

They do not know that doors, windows, stairs, porches, mantels and built-in-furniture can best be made in well equipped factories by expert Curtis workmen using designs drawn by famous architects.

Does your house lack these things?

It has become an easy matter to rearrange your home—to install a mirror door in the bedroom—built-in book cases in the living room—new molding or a breakfast nook. Maybe your house does not contain them. Yet you know that these things will make living twice as comfortable.

The woodwork of a home is like the motor in a car—little noticed unless it is wrong—but all-important. Therefore it is of utmost importance to select Curtis woodwork—so well made that the maker is proud to place his trade mark on each piece.

Not a room but can be improved with Curtis woodwork—made more beautiful, more comfortable, more convenient. Curtis has not slighted the living rooms, bedrooms, halls or dining rooms. Nor kitchens. Safe to say, nine women out of ten would consider perfect a kitchen which included all the Curtis built-in pieces.

All the new conveniences that have been coming in these last few years can be supplied by your local Curtis dealer—all solidly constructed of selected woods and giving a lifetime of comfort for your investment.

You can buy it by the piece

Buy one door or woodwork for an entire house if you like. Always you will get beautiful designs reproduced in materials you will be proud to have in your house.

Manufacture on a large scale with costly machinery enables Curtis to include many refinements which, if done by hand, would be highly expensive. Take, for example, the china closet illustrated in this advertisement. Its moldings are a marvel of line, yet quantity production puts their beauty within reach of every purse. The shelves are adjustable. Double strength glass in the upper door; solid raised panels 7-16 of an inch thick below. Closet comes crated and wrapped, and sanded ready for the painter.

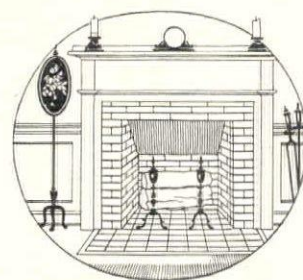
By standardized woodwork it is not meant to suggest cheap production in wholesale quantities. Curtis standardization means a specialization on the finest designs, the highest quality at reasonable cost, prompt deliveries, and the constant intent to make woodwork good enough to pass Curtis inspection of every piece.

Woodwork means so much to the success of a house that it is well worth considerable study. See the catalog at your local Curtis dealers. Or send us the coupon.



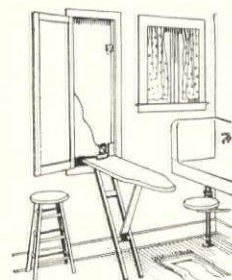
C-100 Entrance

The small projecting roof of this Colonial design affords protection from inclement weather. Booklet on "Entrances and Exterior Doors" sent free on request



C-615, Colonial Mantel

A dainty attractive design suitable for any room. It is offered in unselected birch and here shown painted. Ask for our free booklet on "Permanent Furniture."



C-770 Ironing Board in Wall Case

Requires no lifting and can easily be built in an old house. See our other designs in our free booklet on "Permanent Furniture."

1866 CURTIS

Look for this trade mark. It identifies every genuine piece of Curtis woodwork. You will find many that imitate Curtis designs, and some that claim to be "just as good". But without this trade mark you do not receive Curtis quality! An intrinsic value that unites appearance, utility and Curtis intent.

Our 57 years' experience teaches us that prospective home builders need to see in advance a variety of house illustrations and floor plans—therefore we offer the authentic Plan Books listed below.

Send This Coupon for Valuable Information

The Curtis Co.'s Service Bureau, Dept. 2233, Clinton, Iowa

Send me the Plan Books checked below. If they do not meet my requirements I will exchange or return them in good condition in ten days for my money back.

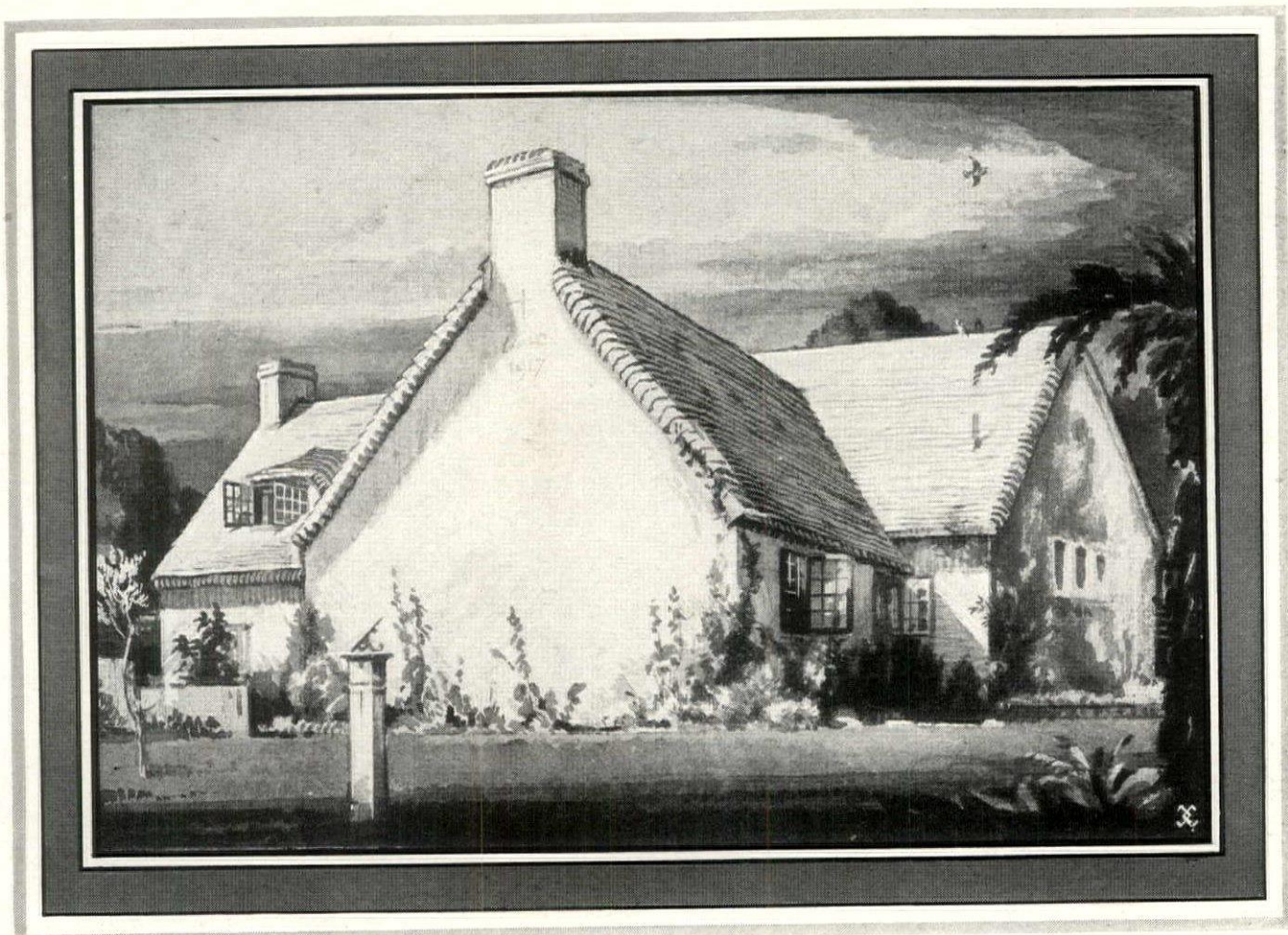
Vol. XI.	39 homes—bungalows.....	\$1.00
Vol. XII.	39 homes—1½ and 2 story.....	1.00
Vol. XV.	39 homes—5 rooms.....	1.00
Vol. XVI.	39—6-room houses.....	1.00
Vol. XVII.	39—7-room houses.....	1.00
Vol. XVIII.	23—8-room houses.....	1.00

Exteriors, woodwork illustrations and floor plans in each. Volumes XV to XVIII, inclusive, are the work of Trowbridge & Ackerman, Architects, New York.

Name.....

Street.....

City.....



Residence Mr. Samuel Heller, White Plains, N. Y. Mr. Frank J. Forsler, New York, Architect

ASK your Architect about Medusa Stainless White Cement, *Waterproofed*. He will tell you that it will retain its whiteness through the years without streaking or discoloring; that dampness cannot penetrate its surface; that it will become ever more beautiful as the growing things develop around it.

Interesting facts in the new Medusa Book. Send your name and your Architect's, and we will forward copies to each of you, with our compliments.

THE SANDUSKY CEMENT COMPANY, *Cleveland*

We are sole manufacturers of Waterproofed White Cement

MEDUSA WHITE CEMENT
 { WATERPROOFED }



Why Architects,
Contractors and
Dealers
Recommend

Andersen FRAMES

1. Immediate delivery—no expensive delays waiting for special custom made frames.
2. 121 sizes ready for every purpose.
3. Delivered in two compact bundles plainly marked and easily handled.
4. 7 parts instead of 57. No small parts to be lost or broken.
5. A frame up in ten minutes. No sorting, measuring or refitting. Pockets and pulleys in place.
6. Accuracy gives smooth-running windows, yet excludes all weather.
7. Modern machinery, methods and specialization lowers cost at factory; quickness of assembly saves you time, labor and money on the job.
8. Better results in frame, brick or stucco buildings.
9. White Pine preserves original accuracy and gives continuous service.
10. Made by the largest exclusive standard frame manufacturer. The trade-mark is absolute protection.



Windows Run Smoothly in Andersen Frames

IT'S a pleasure to have windows that can always be raised or lowered at a touch of the hand.

Two important steps in manufacturing give Andersen Frames this smooth-running quality. First each part of the frame is accurately made. Then the original accuracy is preserved for many years by using White Pine in all exposed portions of the frame.

By specializing the Andersen Factory is able to make frames that are not only exact, but so simple that any carpenter can nail up the seven units complete with pockets and pulleys in place in ten minutes or less.

Write For Free Booklet

We will be glad to explain fully the different features listed on this page. Write and tell whether you are building your own home, or whether you are interested as an Architect, Contractor, Carpenter or Dealer.

Andersen Lumber Company

Dept. N-3

Bayport, Minnesota

(Formerly South Stillwater)

Andersen FRAMES

"The Steel Heart of Plaster"



Stops Fire—Prevents Cracks



No Time for Escape— They Could Have Had an Hour

EVEN a frame home can, at very small additional cost, be made *fire safe*,—every wall a barrier that will bar the passage of flames for at least an hour.

The National Board of Underwriters has given official recognition to this fact, so often confirmed in actual experience. For after severe fire tests they have awarded to walls of incombustible plaster on metal lath a full 1 hour rating.

That first swift, deadly rush of fire is stopped by walls of steel and plaster. The ever lurking fire menace thus has far less terror for the family whose home is protected by KNO-BURN Metal Lath.

FREE! A book of valuable information for Prospective Home Builders. Write for it today!

Ask Your Builder.

Ask him to explain how you can reduce the "up-keep" of your home and make it fire-safe by protecting the "vulnerable points" listed below with

Kno-Burn

METAL LATH

"The Steel Heart of Plaster"

Fire Prevention

- (1) Bearing Partitions, stud and exterior walls, including fire stops.
- (2) Ceilings under inhabited floors.
- (3) At chimney breasts, over heating plants.
- (4) Stair wells and under stairs.
- (5) For exterior stucco.

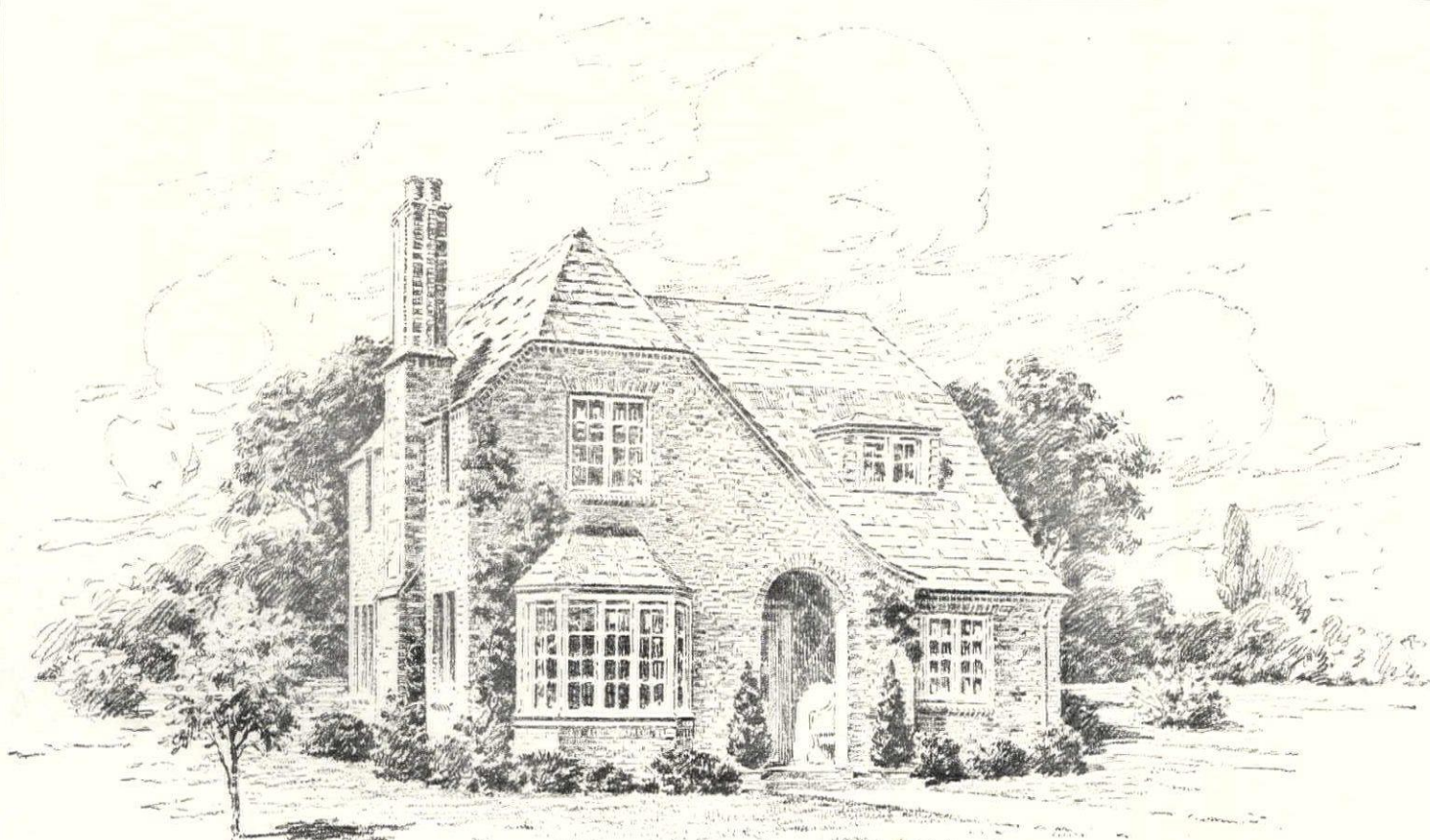
Crack Prevention

- (1) Use Kno-Burn on ceilings of living room, dining room, entry hall, around and under stairs and stairwells.
- (2) Use a 12" strip of Kno-Burn bent into corners of dining room, living room and entry hall.
- (3) It is well also to use Kno-Burn for walls of all principal rooms.

NORTH WESTERN

EXPANDED METAL CO.

1237 Old Colony Bldg. Chicago



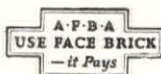
HOUSE No. 111

Designed by Jefferson M. Hamilton, Architect

This is one of the fifty attractive and distinctive houses shown in "The Home of Beauty."

Houses of Enduring Charm

Every year home-builders show a greater appreciation for the value of beauty. Beauty enhances the satisfaction one gets out of his home. It adds to the investment value. It is both a sentimental and practical consideration. The realization of this fact is leading more and more builders to Face Brick, for the Face Brick house is not only attractive when completed, but takes on new and more beautiful hues as it ages. Dollars-and-cents considerations, too, favor the Face Brick house—slow depreciation, a minimum of repairs and upkeep, painting only around doors and windows, low insurance rates and smaller fuel bills. "The Story of Brick" discusses these matters in detail. For your copy, address American Face Brick Association, 1721 Peoples Life Building, Chicago, Illinois.



Send for these booklets:

"*The Story of Brick*" is an attractive booklet with beautiful illustrations of modern homes, and discusses such matters as Comparative Costs, Basic Requirements in Building, the Extravagance of Cheapness, Financing the Building of a Home, and kindred subjects. A copy will be sent free to any prospective home-builder.

"*Face Brick Bungalow and Small House Plans*" embrace 96 designs of Face Brick bungalows and small houses. These houses are unusual and distinctive in design, economical to build, and convenient in floor plan. "Face Brick Bungalow and Small House Plans" are issued in four booklets, showing 3 to 4-room houses, 5-room houses, 6-room houses, and 7 to 8-room houses. The entire

set for one dollar; any one of the books, twenty-five cents. We can supply complete working drawings, specifications and masonry quantity estimates at nominal prices.

"*The Home of Beauty*" contains fifty designs of Face Brick houses, mostly two stories, representing a wide variety of architectural styles and interior arrangements. These houses were selected from 350 designs submitted in a nation-wide Architectural Competition. Sent for 50 cents. We distribute complete working drawings, specifications and quantity estimates for these houses at nominal cost.

"*Orienting the House*" is an illustrated booklet, with a sun dial chart and explanation for placing the house with reference to light and shade. Sent for 10 cents.



Residence of W. O. Ludlow
Madison, N. J.

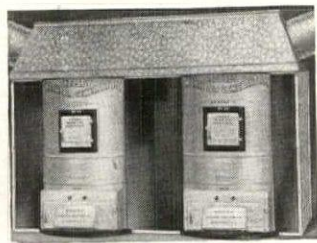
W. O. Ludlow, Architect

The Durability of the Kelsey Warm Air Generator

Ten years ago we installed a battery of Kelsey Warm Air Generators in the house above illustrated; and with ordinary care it will continue to give satisfactory service for twice ten years to come. We can tell you of many Kelsey Warm Air Generators that were installed over a quarter of a century ago, and are still good for many years of efficient and economical service.

The reasons are perfectly simple: EXCELLENCE OF MATERIAL and EXTRA HEAVY CONSTRUCTION. The Kelsey is the HEAVIEST warm air heater made, and its long life makes it one of the LEAST EXPENSIVE.

Besides which, its economy of fuel, due to the ingenious zig-zag tubes which form its fire and combustion chambers, is



a source of great satisfaction to the owner. That the Kelsey gives "more heat to the ton" is a fact that we shall be glad to prove to you.

Send for "Kelsey Achievements", and any other heating information you desire.

THE KELSEY
WARM AIR GENERATOR
(Trade Mark Registered)

237 James St., Syracuse, N. Y.

New York Office
565-K Fifth Ave. (Cor. 46th St.)

Boston (9) Office
405-K P. O. Sq. Bldg.



Look for this tag

When buying insect screen cloth you can follow no better guide than the Jersey Tag. This red and black tag is attached to the end of every roll of Jersey Copper Screen Cloth. Its value to you lies in the fact that it definitely identifies the screen cloth which will give you the maximum of service at a minimum of expense.

Jersey Copper Screen Cloth will save you money in the long run. It is made of copper 99.8% pure. It cannot rust as do iron and steel. The wire has been made stiff and strong by a special Roebling process, so that the cloth will not bulge or sag. It will last almost indefinitely.

While the first cost of Jersey Copper Screen Cloth is slightly higher, the difference is insignificant when compared with its durability and it never requires repainting as is frequently necessary if the cloth is made of iron or steel wire.

It will prove to your profit to investigate this material when you consider insect screens. Many hardware dealers carry Jersey Copper Screen Cloth. Write directly to us, however, if your dealer does not have it. Send for a booklet "A Matter of Health and Comfort" which includes useful information about screens.

THE NEW JERSEY WIRE CLOTH COMPANY
622 South Broad Street

Trenton

New Jersey



Copper Screen Cloth

Made of Copper 99.8% Pure

"Lost balls" take the fun out of tennis

Put up an Anchor Post Tennis Court Enclosure or Back Stop—and enjoy your game to the utmost. Banish exasperating "lost ball" hunts forever. Anchor Post Enclosures and Stops are built for permanency. They are far superior to the ordinary kind with shaky wooden uprights and flimsy netting.

Anchor Post construction includes, for instance, heavy wire fabric supported on strong steel posts. Posts are *Drive-Anchored* and never shift out of line. Old-fashioned hot-dip-selter galvanizing throughout provides most thorough protection against rust.

Write or phone the nearest Anchor Post Office or Sales Agent for complete information including a copy of *The Illustrated Anchor Post* on "The Tennis Court—Its Construction and Upkeep."

ANCHOR POST IRON WORKS
52 CHURCH STREET, NEW YORK,
N. Y.

Branch Offices

Boston, Mass.	Hartford, Conn.
79 Milk Street	902 Main Street
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Cincinnati, Ohio	Philadelphia, Pa.
141 East Fourth St.	Real Estate Trust Bldg.
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Sales agents in other cities



ANCHOR POST Fences



The Pacific Lumber Company is scientifically reforesting its cut-over Redwood lands, under the direction of an experienced forest engineer, and aims to utilize every part of the log for some useful purpose—even the sawdust and bark.

Residence of F. J. Bannister, Hickman Mills, a suburb of Kansas City, Missouri—exterior of Redwood.

For the House Among Trees

FOR the house shadowed by trees, over which vines clamber—where moisture lingers—an exterior of Redwood is the best insurance against rot and decay and heavy upkeep and repair expense.

Redwood is permeated during growth with a natural, odorless preservative which

protects Redwood lumber, siding, shingles, columns, trim, lattice work, etc., against all forms of fungus growth and against insect activity.

Properly seasoned Redwood does not shrink, warp or swell. It takes and holds paint well. It can be bought at prices that compare favorably with those for other woods of equal grade.

Before you build, write for our "Redwood Homes Booklet." For architects and engineers we have compiled our "Construction Digest" and our "Engineering Digest." Copies sent on request.

CHICAGO 3081 McCormick Bldg. NEW YORK 923 No. 40 Rector St. Bldg. SAN FRANCISCO 511 California St. LOS ANGELES Central Bldg., 6th & Main Sts.
THE PACIFIC LUMBER CO. of Illinois THE PACIFIC LUMBER CO.

The Pacific Lumber Co.
Redwood

The Largest Manufacturers and Distributors of California Redwood



In the Middle of the Night IMMEDIATE WARMTH

IT may save merely the discomfort and time lost in securing hot water. It may save something more precious than time—life.

But the convenience alone justifies its replacement of the old fashioned and often leaky hot water bag.

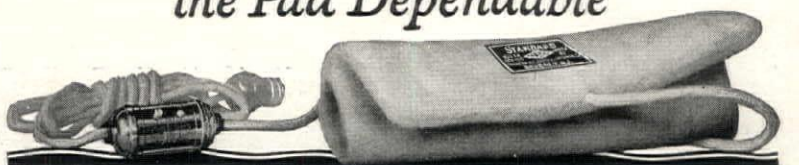
The "Standard" Electric Heating Pad has three ranges of heat—mild, medium and intense.

Covered with soft, fleecy eiderdown, light in weight, flexible to fit the body, the "Standard" is essential to bedroom or sickroom comfort.

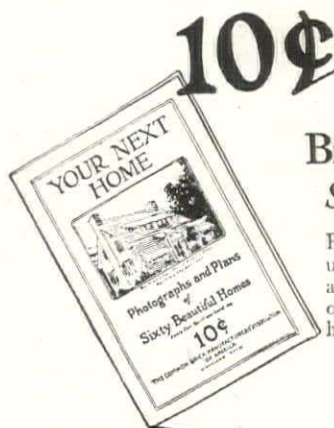
Three heat "Standard" Pad, size 12 inches by 15 inches, is priced at \$8.00 and a smaller single heat "Standard" Pad is \$5.50. All "Standard" Pads are guaranteed for two years. If your dealer cannot supply you, write us.

THE STANDARD ELECTRICAL APPLIANCE COMPANY
BEVERLY, NEW JERSEY

Standard
the Pad Dependable



Select "Your Next Home" from this Great Collection



10¢

60 Brick House Designs Selected from Thousands

Photographs and floor plans of 60 unusual homes and four garages. Leading architects designed them. Every one of these homes has been tested by use—has actually been built and lived in.



THE HIAWATHA

Is believed to be the finest house of its class ever designed.



THE TUSCOLA

Another of the 60 in "Your Next Home". Unusual charm with simplicity.



THE ARDILA

Is a type that meets the needs of most home-builders.

In the last two years we have photographed and studied thousands of brick homes—all over the country. Now 60 have been selected as the finest in beauty and interior arrangement. The valuable book—"Your Next Home"—contains photographs and plans of these 60 selected brick homes that *have actually been built and lived in*. There's a type and price for every taste and purse.

At 10c this is the greatest offer ever made to home builders.

Better Homes Within Your Reach Now

Today your old familiar friend—common brick—offers new beauty and economy. The architect's skill has discovered a wide range of delightful effects attained through expert use of mortar colors, bonds and patterns. And modern uses of common brick—such as the Ideal Hollow Wall—have cut the cost of brick construction a full third.

Any man with the average income now can have one of these 60 beautiful, comfortable, long-lasting and economical brick homes.

Mail This Coupon
TODAY!

The Common Brick Industry
2128 Cleveland Discount Building
Cleveland, Ohio

Enclosed find 10c for "Your Next Home"—the book showing photographs and designs of 60 selected brick houses.

Name _____

Address _____



THE SAQUOIT

The Common Brick Industry of America
2128 Cleveland Discount Building, Cleveland, Ohio.

The Ideal Brick Hollow Wall
Made of standard brick—cuts the cost one-third



Anaconda Brass Pipe is not expensive

ANACONDA Brass Pipe for water service lines costs only about \$75 more for a \$15,000 house than pipe which will corrode and clog—

A negligible item when the resulting freedom from damage and repair expense is considered.

Anaconda Brass Pipe will not corrode. No rust to reduce the flow of water to a trickle. Crystal clear water. An end to leaky pipes.

Anaconda Brass Pipe is guaranteed and trademarked.

Write for our new booklet "Ten Years Hence" which tells how to save on your plumbing. It is free.

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ANACONDA BRASS PIPE

HODGSON *Portable* HOUSES

"They are so much drier than the plastered house"

HODGSON HOUSES are always tight and weather-proof even in the stormiest weather. These houses are made in our workshops by skilled wood-workers, where attention is given to details of construction. Every board is exactly fitted and every door properly hung, Hodgson Houses are stained, painted and finished before they are shipped to you.

The materials used are the best that can be bought. Frame of sturdy Oregon pine, walls

and roof of red cedar, the most durable wood known, lined with heavy fiber lining. No moisture can seep through these walls.

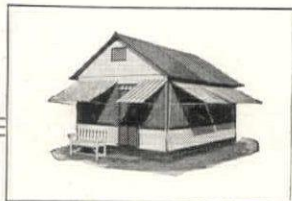
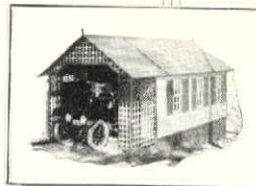
Hodgson Houses are so attractive, they are admired by every one who sees them.

If you are thinking of building anything this spring, whether it be a cottage, garage, playhouse, poultry-house or dog kennel, it will save you time and expense to consult the Hodgson catalog G. Send for it to-day.

E. F. HODGSON COMPANY

71-73 Federal St., Boston, Mass.

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Lunken Windows

in your home are not equalled by any other single type of window on the market, and will add a touch of beauty, comfort and convenience that will distinguish yours from any other home.

LUNKEN advantages are many—

Double hung simplicity. Factory assembly as a guarantee of quality. Any partial shading arrangement. Any degree of ventilation from a mere crack top and bottom to the full 100% opening. Disappearing sash which does not extend into the room, nor stand out in the wind, nor interfere with screens. Rewirable, double sliding rust-proof metal frame, copper-bronze cloth fly screens cover the full opening and disappear at a touch into the window pocket. Window cleaning on both sides of the sash from inside the room without interfering with or damage to screening, and without resort to special hardware or operating directions. Zero tight when closed due to efficient copper weather-stripping—easy operation—perfect silence. Delivered from factory complete, glazed, fitted, hung, screened, weather-stripped, tested and guaranteed ready to set in the wall. Investigate the many advantages of Lunken Windows before planning new buildings. Grant us the privilege of sending complete and detailed information. Write to-day.

THE LUNKEN WINDOW CO.
4219 Cherry St. Cincinnati, Ohio



Lunken Windows Installed in Residence, Mr. Weise, Bridgeville, Pa.

The ONE SAFE WAY of Garbage Disposal

There is only one really safe, sanitary method of garbage disposal—and that is to destroy it. The unsightly garbage can, with its attendant bad odors, swarms of insects, yowling cats and stray dogs, has long been condemned by medical men and experts on the subject of sanitation. The garbage can is also a breeding place for dangerous disease germs.

The garbage problem can be solved for all time with the installation of a Ranz Garbage Destroyer. Makes the entire place more sightly and sanitary. Owners of the Ranz are independent of the costly, unreliable method of having waste matter hauled away.

The Ranz is easy to install and operate. Put it in a corner of the basement—or outdoors. Dump in all the wet or dry garbage, rubbish, etc. Nothing can clog it and the Ranz sterilizes itself with each burning. No muss or odors.



Ranz Garbage Destroyer

Is a scientific system of garbage disposal for homes, hotels, apartment houses, hospitals, public institutions, parks and playgrounds. Made in two sizes—1½ and 3-bushel capacity.

Mail the coupon today for prices and literature.

Neenah Brass Works,
Dept. 23, Neenah, Wis.

Please mail me your booklet on garbage disposal for homes, apts., hospitals, picnic grounds (check).

Name.....

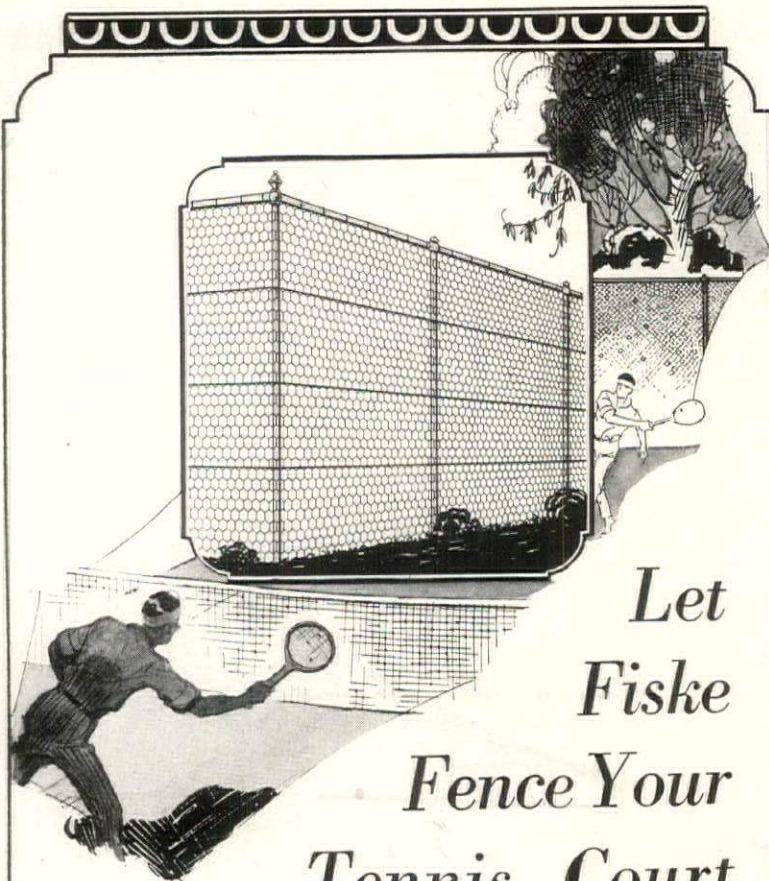
Address.....

Neenah Brass Works

Neenah,

Dept. 23

Wisconsin



Let Fiske Fence Your Tennis Court

AND it will be done right and it will stay right for years.

Fiske has been fencing tennis courts for so long that Fiske knows how to give the most satisfactory results at a most satisfyingly reasonable cost.

Fiske Fencing Most Enduring
Fiske Tennis Court Fencing built of hexagonal mesh wire, tubular uprights and rails, with adequate braces. The wire mesh is closely woven, comes down to the ground, and is re-enforced by horizontal heavy wires.

Fiske Fencing Rust Proof
Because Fiske Fencing is galvanized by the hot spelter process after, not before, it is woven, the rust proofing is absolutely complete and more enduring.

Fiske Service Complete
Fiske will contract to do installation; or will furnish plans and blue prints with full erecting instructions.

Let Fiske fence your tennis court. Send for catalog 13.

Fiske Also Makes Ornamental Iron Work of Every Kind

Send for Fiske Catalog, specifying just what type of Fiske Products you are interested in.



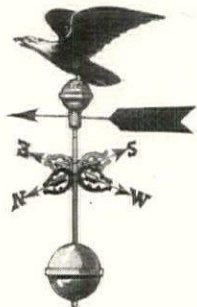
FOOT SCRAPER

Cast Iron, in Copper Bronze or Verde Antique finish is complete with two brushes... \$7.00



ANDIRON SET

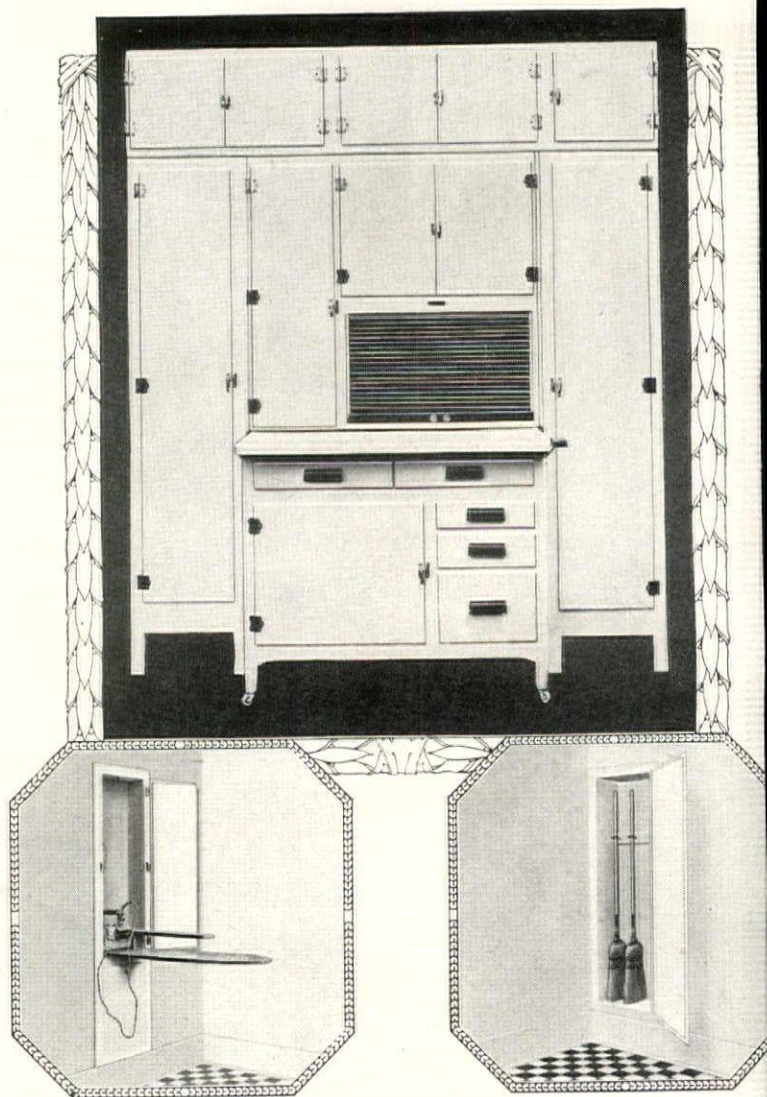
This special design wrought in iron, is both useful and ornamental. Complete... \$12.50
Also andirons in Bronze or Brass



WEATHER VANE

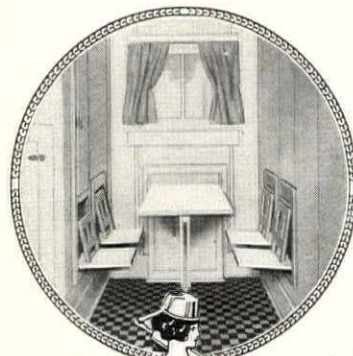
Eagle and arrow design. Made of copper, gold leafed, 20 inch wing spread. Complete... \$20.00
Other sizes carried in stock

J.W. Fiske IRON WORKS
ORNAMENTAL IRON WORK
80 Park Place ~ New York
ESTABLISHED 1858



Build a Better Kitchen —and Save Money!

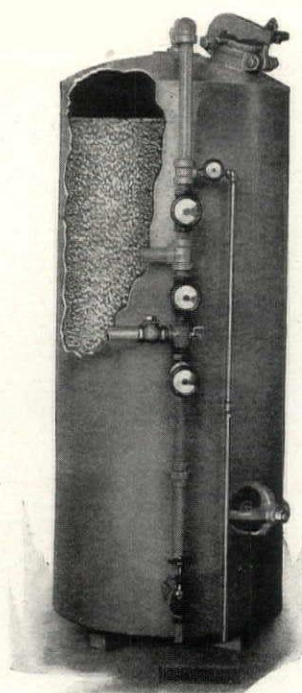
Ready-made standard kitchen units will save space, make it possible to build your kitchen more compactly—and cost no more than ordinary cupboards. Above is "Combination 1-X"—a Kitchen Maid kitchen cabinet in combination with dish closet, broom closet and storage cupboard. The small illustration at the left is an ironing board which unfolds from the wall. At the right is a broom closet. Below is the "Pullman-look"—which disappears into the wall when breakfast is over. Get our catalog of many other convenient modern units which save you space and money in building your kitchen—and time for ever after! Write today.



WASMUTH-ENDICOTT Co.,
Andrews

203 Snowden Street
Indiana

KITCHEN MAID
STANDARD UNIT
SYSTEMS



A Permutit Water Softener is connected into your pipe line in the basement, and automatically abstracts all hardness from the water as it flows through on its way to the faucets.

The Biggest Household Improvement Since Electricity

A Machine That Makes Hard Water—Soft

No longer is it necessary to use powders, special soap or tainted rain water to overcome the everpresent annoyance of hard water in your home, for no matter how hard your present supply a Permutit Water Softener will turn it softer than rain.

Without the use of chemicals, without any extra pumps or motors, a Permutit Softener will deliver a clear drinkable supply of delightful soft water from every faucet in your house. The softener is simply connected into your pipe line in the basement or other convenient spot; your regular water supply flows through it on the way to the faucets, and the wonderful Permutit material automatically abstracts every grain of hardness, leaving it clear and delightful for every purpose.

Once every week or ten days you put a fixed amount of common cooking salt in the softener. This regenerates the Permutit material by driving out its accumulated hardness, and that is the only operating expense. A few cents a day is all it costs, and the machine should last a lifetime. Thousands are in use.

Send for a free copy of our interesting booklet, "Soft Water for your Home." Write to-day.

The Permutit Company

440 Fourth Ave., N. Y.

Agents everywhere

The Arts & Decoration Practical Home Study Course in Interior Decoration

COMPLETE, authoritative, covering every phase of Interior Decoration—background, curtains, lighting, colors, textiles, fabrics, classic and modern styles, periods and period furniture, composition. Practical step by step direction in what to do and how to do it, whether the objective is to beautify your own home or to fit yourself for a highly paid artistic career.

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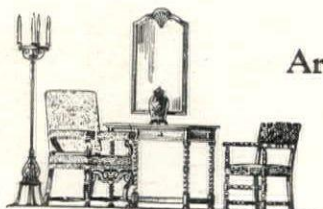
WILLIAM EMERSON, Massachusetts Institute of Technology
HUGER ELLIOTT, Penna. Museum and School of Industrial Arts

WHITNEY WARREN, architect

PHYLLIS ACKERMAN, author and lecturer

RICHARD F. BACH, Metropolitan Museum of Art

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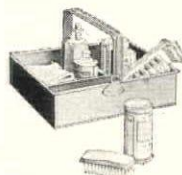


An illustrated booklet giving full details of the course will be sent you on request

Arts & Decoration

48 West 47th
Street
New York

Prepare Now For Spring Cleaning



Housemaid's Basket. Of staunch metal in red, oak or blue japanned finish. (Contents not included.)



Housemaid's Pail. Comely as well as utilitarian. In blue, pink, copper, white, yellow, red. (Contents not included.)

HERE is a typical example of the modern wares which have made Lewis & Conger's the synonym for household necessities; a unique housemaid's basket for carrying soap, brushes, powder and cloths. By keeping these elusive little things together you save many hours that more than repay for the mere \$3 the basket costs. Your order can be quickly filled by mail.

Without this clever housemaid's pail, designed to catch water from spilling, your home lacks an important Lewis & Conger essential. The price is \$5.50 but value it in terms of rugs, carpets and polished floors saved from spilt water and suds. Order by mail today.

Indispensable to every modern woman is this new book "Home Equipment," prepared by Lewis & Conger, which contains a wealth of ideas for household economy. You should have a copy. Send for it today on the coupon attached.

LEWIS & CONGER

45th Street and Sixth Avenue
NEW YORK CITY

LEWIS
&
CONGER
45th St. & Sixth Ave.,
New York

Please send me without cost, your booklet "Home Equipment."

Name.....

Address.....



WALL PAPER adds so much and costs so little

BEAUTIFUL bedrooms—what a lot modern WALL PAPER has contributed to *make* them so! And what a little it has asked for its services!

WALL PAPER is the magic wand that transforms an austere room into a cheery bed-chamber; or, its mission may be to tone down a too-bright room into a more sombre one that invites rest and relaxation.

Such amazing things WALL PAPER does! And *can* do. It invests the modern woman with the power to control the effect of every room in the house, much as a stage-director controls the effect of his sets.

See the nearest Guildsman, at the Sign of Service shown herewith. Revel in the patterns that enable you to express your personality in home-decoration in a way you thought unlikely, at a price you thought much higher.

\$1,000.00 for a slogan!

Can you coin a phrase that will convincingly convey the importance of WALL PAPER in the life and well-being of the American people?

*First Prize, \$500.00 Second Prize, \$100.00
20 Prizes of \$20.00 each*

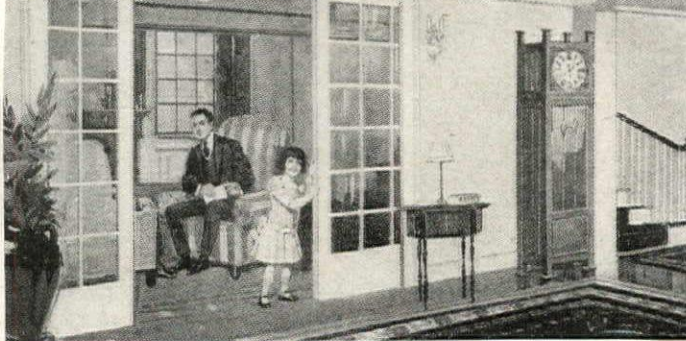
Get out your pencil! Somewhere in the English language is a concise combination of words that will become the slogan of the WALL PAPER Industry. In case of two or more contestants submitting the winning slogan, full award will be made to all winners. Mail your suggestions before April 15th to Publicity Director, Suite 1819, 461 Eighth Ave., New York.

Published for

WALL PAPER MANUFACTURERS' ASSOCIATION
of the United States

Headquarters: Suite 1819, 461 Eighth Avenue, New York

The modern door vanishes



HAVE you noticed how much space is wasted by hinged doors—space that could be used to advantage, adding much to the roomy appearance of your home? Hinged doors have another disadvantage, too. They are sure to stick when the building settles, which means that they must be removed, planed off and refinished.

Vanishing doors, hung on Richards-Wilcox hardware, permit every foot of floor space to be utilized. They put an end to slamming doors, insure greater privacy and prevent door accidents to children. R-W hardware is so skilfully made that it provides a door which operates easily and noiselessly—in fact, the doors open or close at a touch. Moreover, the adjustable feature of R-W hardware positively eliminates sticking.

If you plan to build or remodel you will find our book, "Modern Hardware for Your Home," of great interest. Ask for Catalog M-28 when you write.



Most reliable hardware and lumber dealers can supply you with R-W Vanishing Door Hardware. If not, it may be quickly secured from any one of our many branches.

Richards-Wilcox Mfg. Co.
"A Hanger for any Door that Slides."

AURORA, ILLINOIS, U.S.A.

Minneapolis
Philadelphia

Chicago
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New York
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RICHARDS-WILCOX CANADIAN CO. LTD.
Winnipeg LONDON, ONT. Montreal

Manufacturers of "Slidetite"—the last word in garage door hardware



WINTER—cold and white! Yet the color of this roof in the slanting sun reflects the warmth of the hearth within. A roof of Johns-Manville Rigid Asbestos Shingles, with their various soft colorings blended, expresses the geniality of your home and the individuality of your taste.

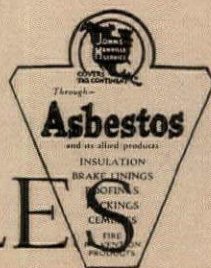
A practical roof too! Asbestos has proved its permanence in the rock-beds whence it comes,

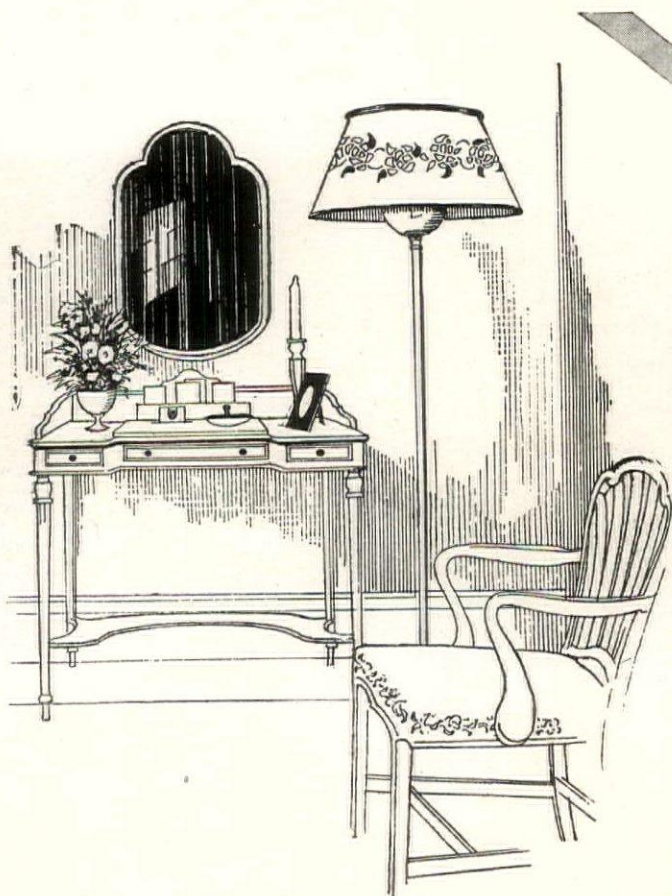
and its fire-safety under the white hot flame of the blow torch.

There are roofings of Johns-Manville Asbestos in many forms, for every type of building; all are fire-safe and economical.

Send to Johns-Manville, Inc., Madison Avenue and 41st Street, New York City, for booklet in colors on Rigid Asbestos Shingles.

JOHNS~MANVILLE ASBESTOS SHINGLES





Use
PLATE
Glass

Always in good taste

CENTURIES have passed since the glass-workers of Venice first produced mirrors. But the years since those first crude mirrors graced the walls of Europe's splendid palaces, have been years of improvement, refinement, perfection.

For many years the Italians and French possessed the secret of fine mirror-making. To-day there are no more perfect mirrors made than those manufactured by the mirror-makers of our own country.

Only perfect, crystal-clear and flawless plate glass is selected, and the silvering is done with painstaking care. For brilliance, depth and flawless perfection plate glass mirrors of American make are unsurpassed.

To those fourteenth century Venetian glass-workers who so jealously guarded the secret of mirror-making for two hundred years, the interior decorator and home designer of to-day owe a debt of gratitude. For there is no more effective accessory in home decoration than the happily placed mirror. Fortunately, mirrors never go out of style. Hung on the wall or built into the house, to be useful or merely decorative, a mirror is always in good taste.

One never regrets the mirrors built into closet doors, bedroom doors, bathroom doors and other appropriate places. When building a home, ask the architect to include plate glass mirrors in the specifications.

PLATE GLASS MANUFACTURERS of AMERICA

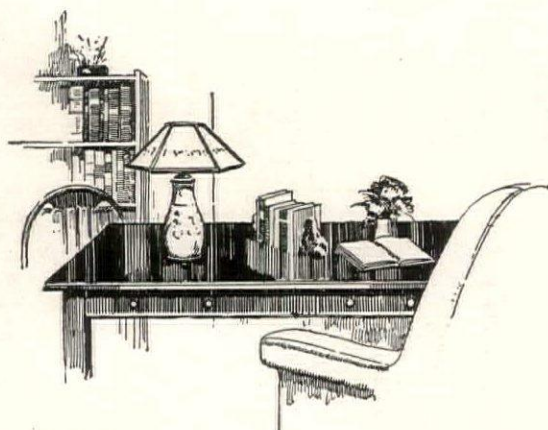
Genuine
PLATE GLASS



**Nothing Else
is Like it**

*Use Plate
Glass for:*

Table Tops
Desk Tops
Buffet Tops
Dresser Tops
House
Windows
Motor Car
Windows





LIQUID VENEER

Hundreds of thousands of housewives have found that old, reliable Liquid Veneer, by imparting a beautiful, high polish, keeps their piano, furniture and woodwork in a condition that renders them objects of pride.

In your home Liquid Veneer will save many dollars in re-finishing. It will quickly restore age-dulled pieces to brilliant newness. Moreover, Liquid Veneer *preserves* the finish of any varnished or enameled surface.

Laughing Vivian says: "With the help of Liquid Veneer you can do all of your dusting in a very few minutes and when you have finished everything just shines. Liquid Veneer feeds the surface and almost instantly all scratches, "smokiness", finger-marks, disappear. It cleans as it polishes, leaving a dry, highly lustrous surface."

Price 30c to \$3.50. At all dealers.

LIQUID VENEER MOP

Champion of the World, has a full yarn center which gives double the cleaning surface. The swab comes off "like a curtain from a rod" for washing and renewing.

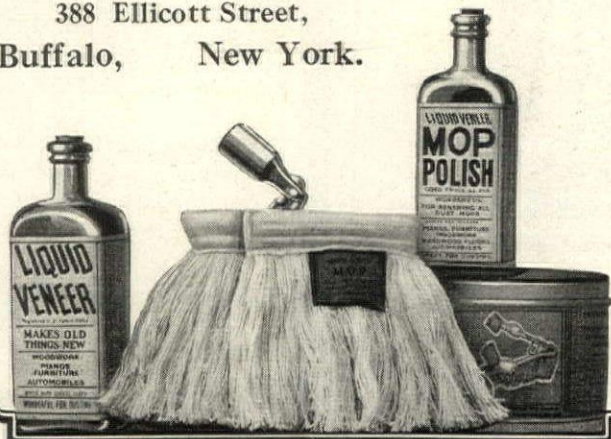
Price \$2.00. Other sizes \$1.50 and \$1.00
In Canada \$2.00, \$1.75 and \$1.25.

LIQUID VENEER MOP POLISH will renew any dusting mop as it has never been renewed before. It will make your floors rival your piano in cleanliness and polish.

Price 30c to \$3.00.

Buffalo Specialty Company

388 Ellicott Street,
Buffalo, New York.



Residence of Henry J. Seiter
of Chicago, Ill.

"It Has Operated in a Perfectly Satisfactory Man- ner Under All Conditions"

"It is now nearly two years since you installed Frigidaire in my home. During these two years I have subjected it to every possible refrigeration test that could be applied in a private home. It has operated in a satisfactory manner under all conditions and at a cost considerably below that of the old style refrigerator."

To anyone desiring perfect refrigeration in the home, I most cheerfully recom-mend Frigidaire."

Yours very truly
HENRY J. SEITER

Frigidaire is better than an ice-box because it keeps a constant temperature below 50 degrees and maintains a dry temperature —both of which are absolutely necessary to perfect, healthful refrigeration. Frigidaire retains the original tastiness and flavor of the food. It banishes the muss and nuisance of ice and waiting for the ice man. Its greater final economy makes it suitable for use in any home. There is a size and style of Frigidaire for your home.

DELCO-LIGHT CO.

DAYTON, OHIO



Frigidaire

CLEAN DRY ELECTRICAL REFRIGERATION





HEINZ Tomato Ketchup

There's more ketchup in a bottle of HEINZ Tomato Ketchup than in a larger bottle of ordinary ketchup. More tomato and less water. Sound tomatoes and no artificial preservatives. Luscious red ripe tomatoes and no artificial coloring matter.

H. J. HEINZ COMPANY



Why a solid porcelain refrigerator?

FOR the same reason that sterling is preferable to plate, solid porcelain is superior to thin glass or metal merely porcelain coated.

The Jewett is the only refrigerator with both food and ice compartments of solid, seamless porcelain—which means an interior of white porcelain 1 1/4 inches thick, free from unsanitary dirt collecting crevices and corners; and unlike porcelain enamel—free from chipping and cracking. In brief—strong, efficient and germlessly clean.

Send for our new finely illustrated catalog—it explains the advantages of Jewett Refrigerators in detail and makes plain why they are used in distinctive homes everywhere.



Corner of Jewett solid porcelain interior. Note thickness and rounded corners.

The Jewett Refrigerator Company
Established 1849
123 Chandler Street, Buffalo, N.Y.
Branch Offices: New York, Boston, Chicago,
Cleveland, Los Angeles, Montreal

JEWETT The Only Solid Porcelain Refrigerator



CORCORAN TANK TOWER
on estate of
Francis P. Garvan, Esq.
Roslyn, Long Island

WATER Always Available

Country estate owners find the CORCORAN TANK TOWER an unfailing means of obtaining plenty of water, at a high pressure, for the house, garden and garage.

And they find the CORCORAN WINDMILL the best means of keeping the tank full.

Write for estimate of complete cost, including designing, material and construction.

A. J. Corcoran, Inc.
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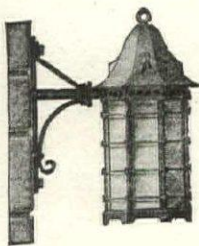
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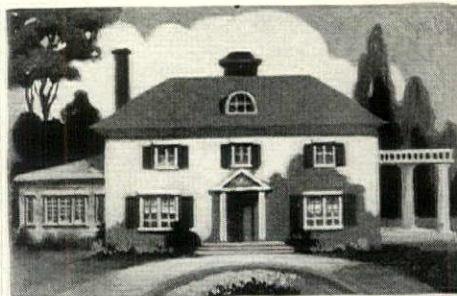
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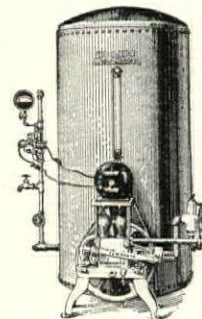
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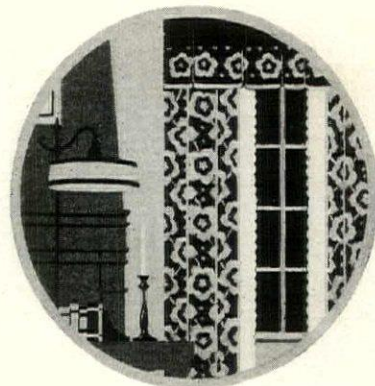
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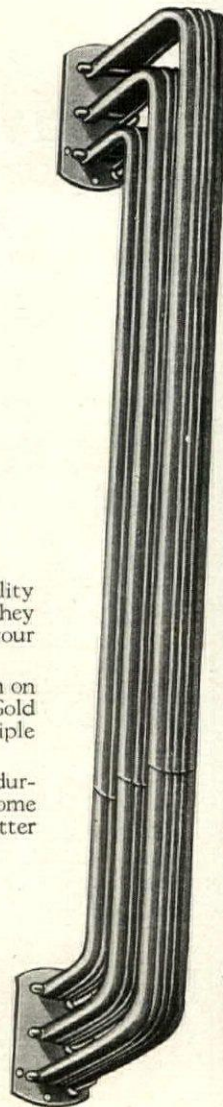
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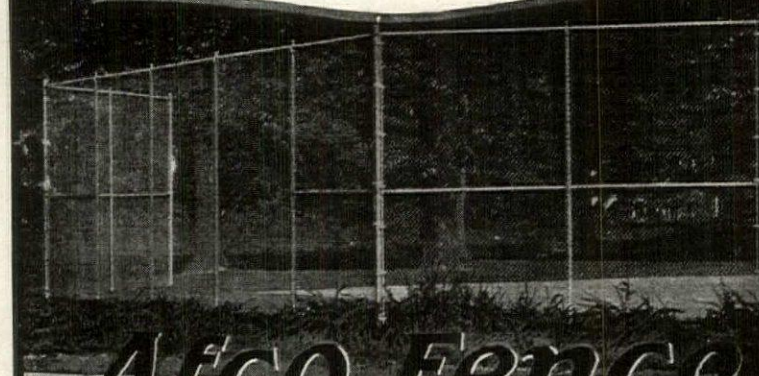




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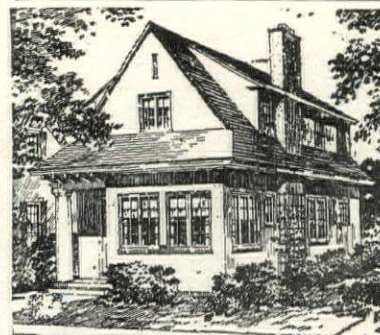
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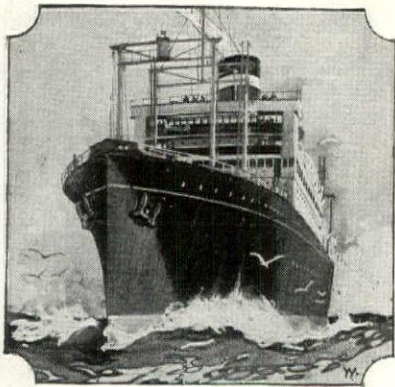
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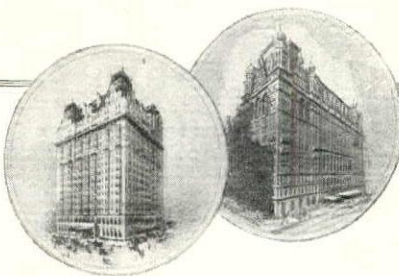
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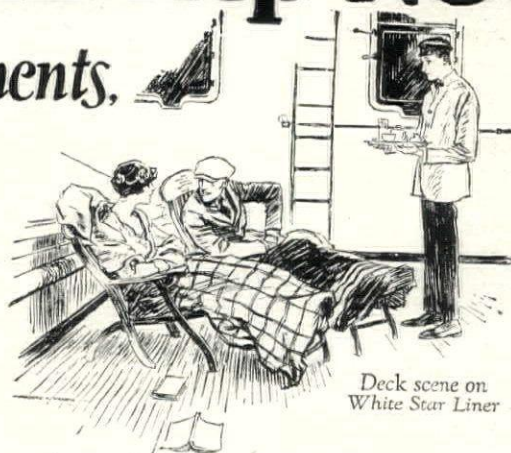
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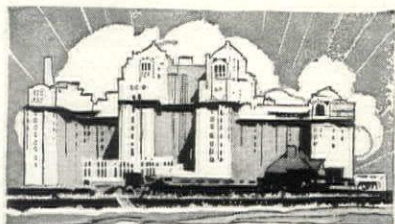
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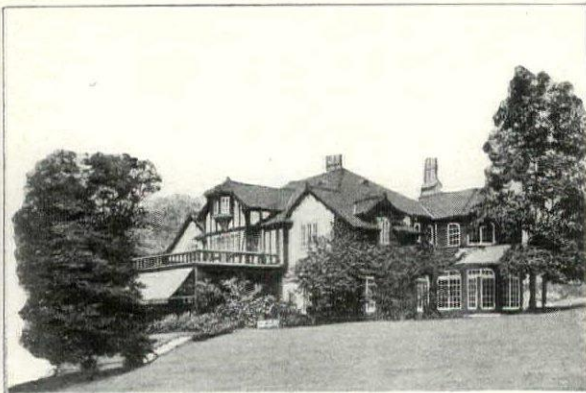
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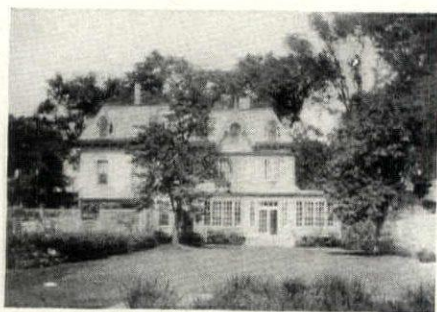
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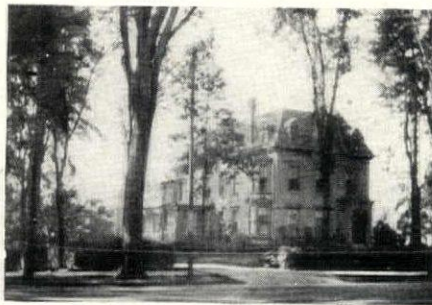
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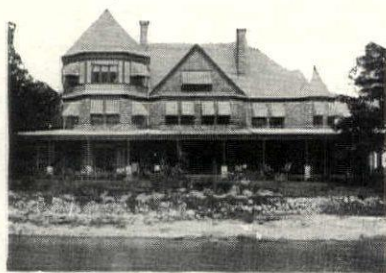
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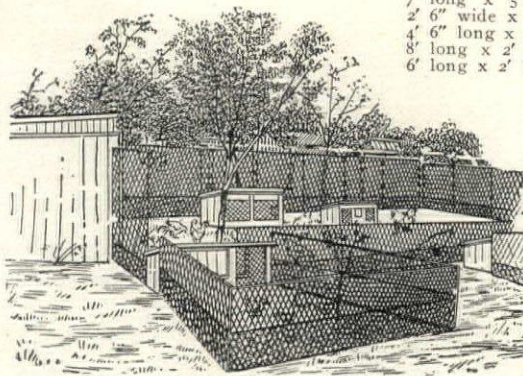
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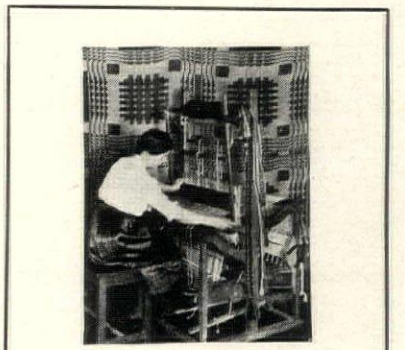
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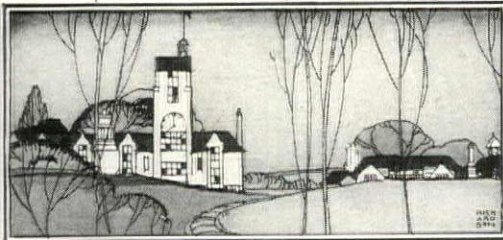
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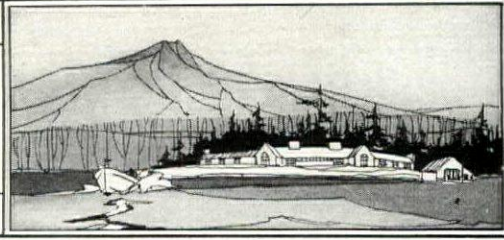
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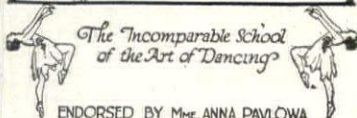
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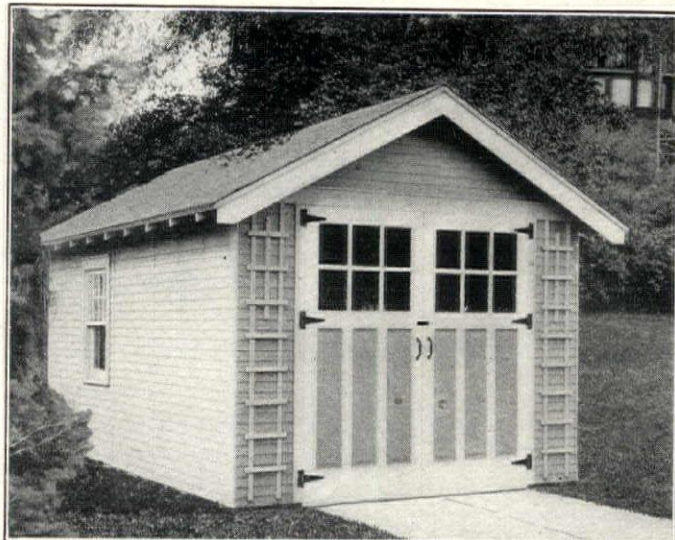
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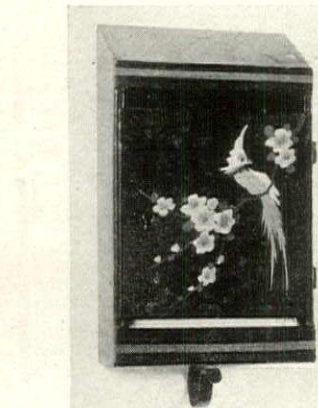
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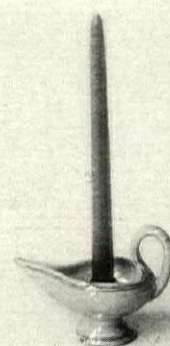
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MEMORIALS FOR EVERY PURPOSE. In granite, marble, bronze and glass. Individual consideration. Sketches upon request. The Davis Memorial Co., Syracuse, N. Y. & 511 5th Ave., N. Y. C.

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Originators of Lanoll Waving. World Famous Experts. 12 and 14 East 49th St. New York. Phone Vanderbilt 7560-7661.

CALL AT SCHAEFFER'S if you want expert personal attention for a permanent wave. Positively no frizz or kink. J. Schaeffer, 590-592 Fifth Avenue Phone: Bryant 7615.

CLUZELLE BROS.
Specialists in the new "Eugene" Permanent Waving Transformations
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ORIENTAL RUGS
Direct from Persia and China
Oriental Rug Exchange
173 Madison Ave. near 34th St. New York

EDGEBROOK HAND-WOVEN RUGS
Unusual & beautiful rugs made to your order. Send sample of chintz or wall coverings to be matched. Edgemoor Studios, Edgemoor Road, Montclair, N.J.

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CHARM, POISE & PERSONALITY—Overcome self-consciousness—Personality analyzed, correct social procedure authoritatively taught personally & by mail. Mlle. Louise, Marie Antoinette Hotel, N. Y. C.

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now at 540 Madison Avenue. Specializing in scrap, sewing and garden baskets. Native hats for Palm Beach.

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Opp. Altman's—**ROSE OLGA TRITT**—306 5th Ave. A shop Intimé on the 11th floor specializing in fine Gems, Settings and Repairs. Express your personality in your Jewelry. We will design and execute it well.

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PAUL'S FOR WEDDING INVITATIONS. Announcements, Calling Cards and Fine Stationery. Prices and samples upon request. Peter Paul & Son Inc., 256 Delaware Ave., Buffalo, New York.

ENGRAVED Wedding Invitations & Announcements Everett Wadley Co. has for a generation insured highest quality at reasonable prices, delivered. Book Wedding Etiquette Free. 9 So. 11th St. Richmond, Va.

Tuckaway - Newark, N. J.

Tuckaway - Newark, N. J.

TUCKAWAY FOLDING LADDER

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A revelation in ladder safety

THE ULTIMATE in ladder construction—perfect safety combined with utmost convenience—the first improvement in ladder construction in many years. Your servants will not neglect the difficult corners if you provide a TUCKAWAY LADDER for their protection, convenience, and use. Your own occasional use of a ladder will become a pleasure rather than a hazard.

TEN-DAY TRIAL OFFER!

We are so confident that you will want one of these safe, convenient FOLDING LADDERS—permanently once you have tried it—that we guarantee to refund the purchase price to anyone who returns it, after a trial, express prepaid.

7.50
Express
Prepaid



Sturdy, rigid, reliable.
Folds into 2 3/4" x 7 1/2" x 52"

This special offer good only to Mar. 31, 1923. Tuckaway Folding Ladder Co. Inc., Newark, N.J.

Send me, express prepaid, one TUCKAWAY FOLDING LADDER, rubber-base, straight grain white oak and poplar, riveted throughout, for which I enclose \$7.50, you agreeing to refund this amount if ladder is returned, after a ten-day trial, express prepaid.

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City.....State.....

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Tuckaway - Newark, N. J.

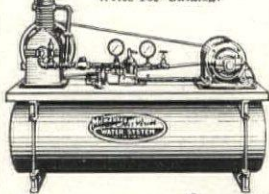
Modernizing Suburban Homes

Of all modern conveniences, what could be as essential as fresh, running water? Think of its many uses—in the kitchen, in the laundry, in the bath room, for the lawn and garden, in the garage, all about the premises. Thousands of home owners throughout America are enjoying the advantages of

MILWAUKEE Air Power Water Systems

The "Milwaukee" delivers water any distance direct from well. No water storage tank, no freezing. Water always at well temperature. Simple, easily installed. Sizes as low as \$125. The "Milwaukee" makes life more enjoyable; increases property value. Provides fire protection. Investigate now.

Milwaukee Air Power Pump Co.
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Write for Catalog.



Running Water direct From Well



300
Pictures
of
fascinating
villas, large
and small.
Handsome
Binding.
Quarto in
a Box
\$15.00

VILLAS of FLORENCE and TUSCANY

By HAROLD DONALDSON EBERLEIN

The general reader, the architect and the devotee of beauty will prize and study these remarkable illustrations, with their descriptions and comments, for they are both an inspiration in design and are peculiarly rich in fresh, suggestive value. No commercial photographer or paid assistant could possibly have taken the more than three hundred views that are shown here. The author did the work himself with infinite care and a true artistic perception. Each set of views is accompanied by a plot or plan, or both, of the villa concerned.

The average traveler in Tuscany sees only the larger and more celebrated villas, and little dreams of the many delights hidden behind the high walls that line the roads. It is the joy of these as well as the beauties of the famous places that the author shares with the reader.

Dear Sirs: Send me fully illustrated circular of EBERLEIN'S VILLAS.

J. B. LIPPINCOTT CO., 227 So. 6th St., Philadelphia, Pa.

IT Does the Cleaning —NOT You!

Don't scrub or scour the toilet bowl. Sani-Flush cleans it for you.

Sprinkle Sani-Flush into the bowl. Follow directions on the can. Flush! Discolorations disappear. The bowl shines. Nothing like Sani-Flush.

You can't reach the trap—hidden, unhealthful, Sani-Flush does! Cleans thoroughly. Destroys foul odors. Won't harm plumbing connections. Keep Sani-Flush handy in the bathroom.

Sani-Flush is sold at grocery, drug, hardware, plumbing and house-furnishing stores. Price 25c. (Canadian price, 35c; foreign price, 50c.)

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33 Farringdon Road, London, E. C. 1, England
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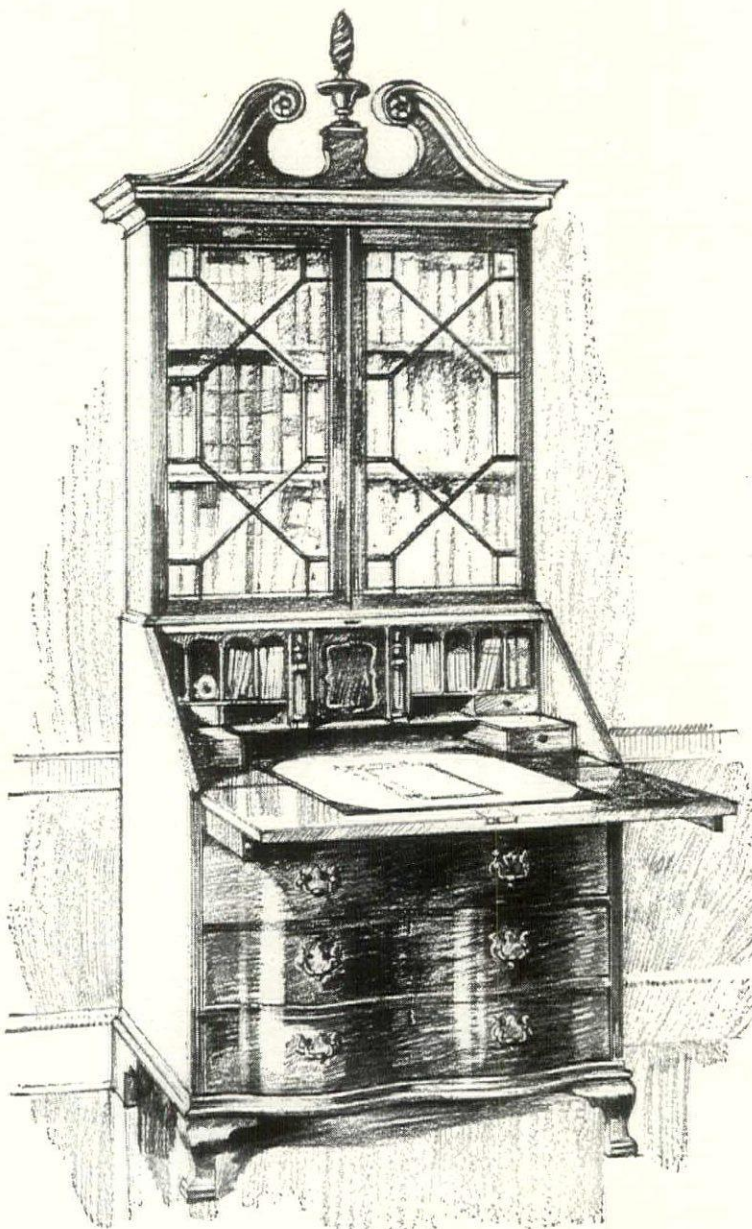
Sani-Flush

Cleans Closet Bowls Without Scouring



An Old Norfolk Residence

CIRCA
1790



In many of the old Colonial homes are found Masterpieces of furniture of that time. Everyone cannot possess or obtain such *heirlooms*, but it is possible to find accurate reproductions of these antique pieces having the same careful craftsmanship, rare quality and variety in woods. Manufactured and finished by *W & J Sloane*, they reproduce the charm and interest that time and usage have given the antique pieces.

W & J SLOANE

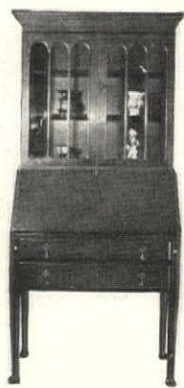
FIFTH AVENUE AND 47th STREET
NEW YORK
SAN FRANCISCO WASHINGTON D.C.

Tavern Table and Heath Wing Chair, made with the greatest care to preserve the subtle points of interest found in the original pieces. The chair was once the property of General William Heath who was on Washington's staff

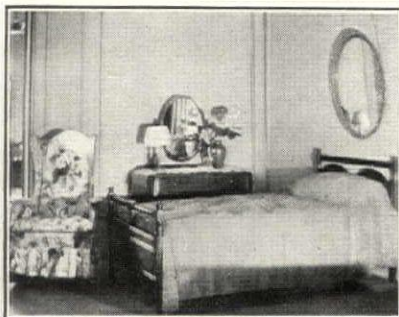


Danersk Furniture

Authentic in details of design and finished in the rich tones of old wood



Litchfield Maple Desk, finished with the rich tones of old wood; suitable for a living room to give variety with mahogany or walnut pieces



Pendleton Group with chints covered rocker, bed, and dressing table. Hand fitted mortice and tenon joints. Flush construction with pegs showing as on the old furniture. Maple and white walnut, finished in mellow amber and ruddy brown with decorative band of antique blue and running design as though inlaid in rare wood

Danersk Furniture is made in our factory located in the heart of that part of the country where so many of the choicest old examples of American workmanship abound. We possess a valuable collection of original pieces which we use as

documents in designing furniture for the American homes of today.

Our salesrooms in Los Angeles, Chicago and New York are the *only* places where the complete line of Danersk Furniture can be seen. You may feel

perfectly free to have your purchases charged through your own dealer or decorator.

An inspection, however, of the complete line is essential in making your selection.

Danersk Furniture is made for those who regard the furnishings of their home with real affection and delight in bringing to their selection a nice discrimination.

The pieces here illustrated were deemed worthy of exhibition in the Metropolitan Museum and the Architectural League of New York.

Decorators and their clients are always welcome.

ERSKINE - DANFORTH CORPORATION

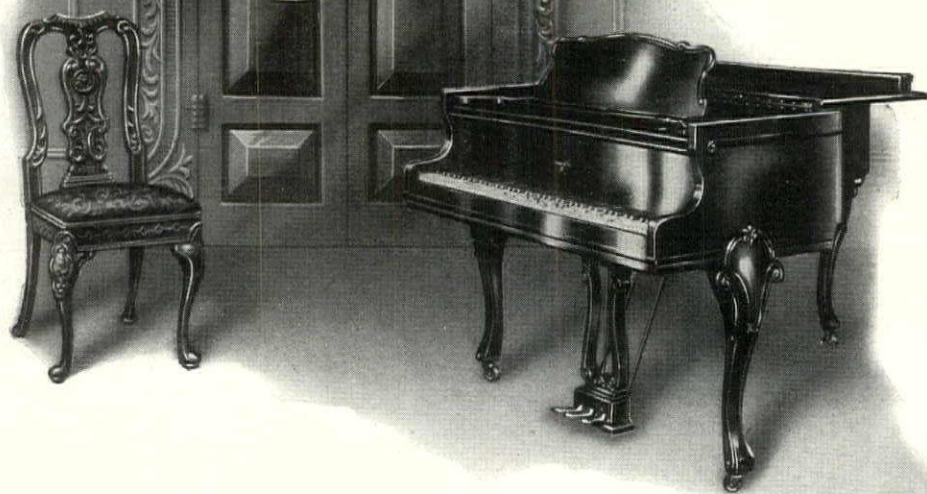
2 West 47th St., New York

315 North Michigan Avenue, Chicago

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SOHMER

Cupid Grand



Rightfully First Among Small Grands

Queen Anne Model

In 1884 Hugo Sohmer created the first successful small grand piano. The transcendent beauty, the amazing volume of its tone at once commanded the admiration of the whole world of music. Each succeeding year has demonstrated its supremacy anew — each year has witnessed an increasing preference for this wonderful little instrument.

The Cupid Grand has contributed to the lustre of the name Sohmer to the end that there are now more Sohmer pianos in use in Greater New York than any other artistic make.

Today this small grand continues to testify to the genius of Hugo Sohmer in encasements of period design that outwardly reflect its exquisite musical qualities.



THE GRACEFUL cabriole legs and sinuous curves, reflecting the luxury and refinement of the period, characterize the Queen Anne encasement of the Cupid Grand which is offered in Antique Walnut, Brown Mahogany and in Chinese and Decorated Lacquer.

SOHMER & CO., 31 West 57th Street
Established 1872



Year Round Comfort \$1145 Freight and Tax Extra

Owners Like It—The Best Test

With all closed car comforts and utility the Coach combines performance and reliability surpassing far costlier cars, both by official proofs and the service records of owners.

It is sturdy, good looking and comfortable for year round service. The body stays tight and quiet. Doors keep their snug fit. Upholstery and rugs are made of long wearing materials.

Lightness, economy and reliability are qualities you will appreciate all the more, because of its remarkable ability and performance.

A Coach Upside Down— *Have You Seen It?*

Dealers throughout the country are displaying Coach bodies minus top and side coverings—showing frame work and materials. Some have rolled Coaches over on their tops to demonstrate sturdiness of construction. It is a dramatic proof of the first class design and material of the Coach.

Touring - - \$1045

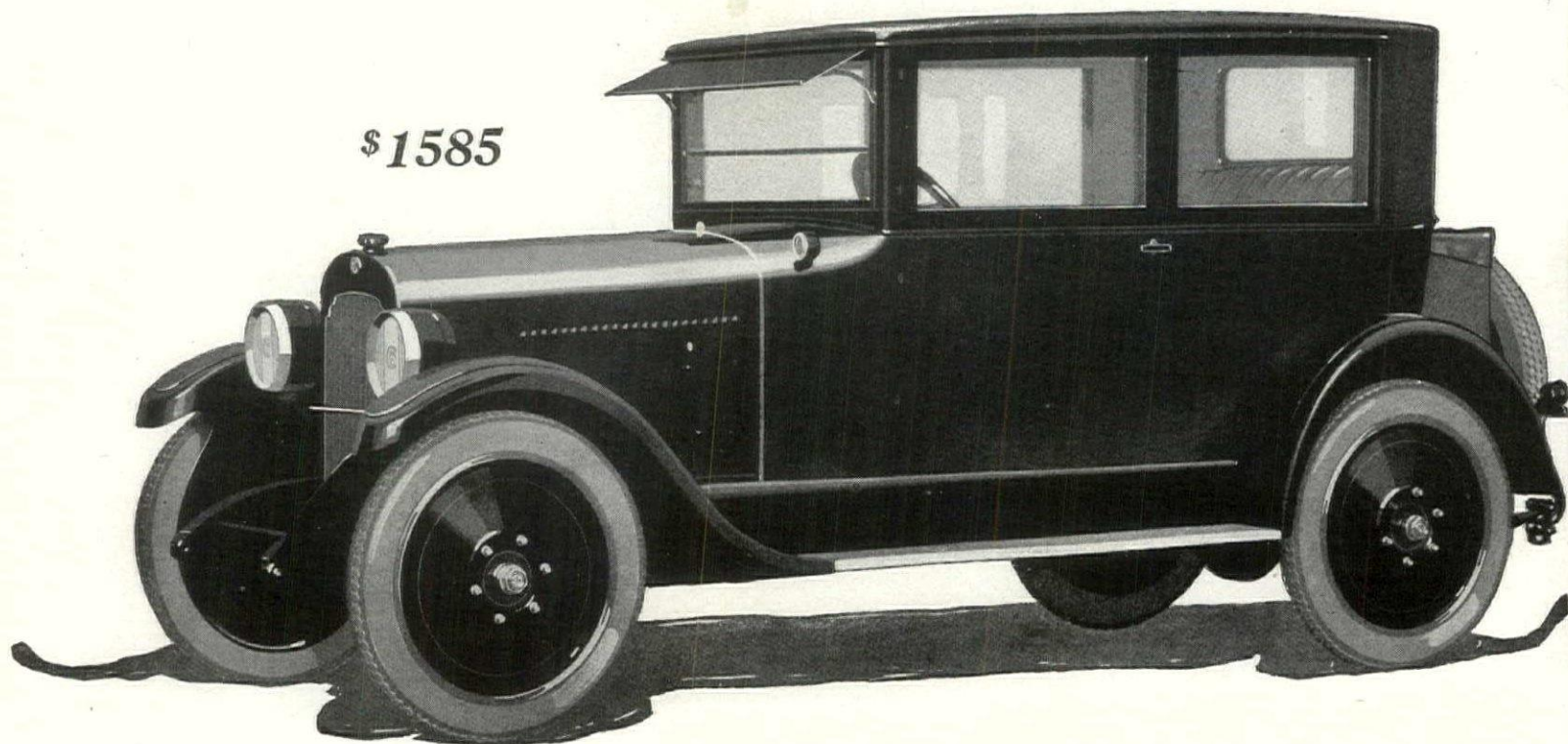
Cabriolet - - \$1145
Freight and Tax Extra

Coach - - \$1145

ESSEX COACH



\$1585



The New Sedan-Coach

The Sedan-Coach In Detail

Broadcloth upholstery, satin-finish hardware. Door windows and quarter windows adjustable. Both front seats tilt forward, permitting easy access to rear seat from either entrance. Double ventilating windshield, hinged at top and bottom. Large trunk. Yale locks for doors. Heater, windshield visor, windshield wiper, rear vision mirror, disc steel wheels and non-skid cord tires. \$1585 f. o. b. Detroit, revenue tax to be added.

The finest of design, the highest grade of coach-work—

Seating space so generous that five full-grown persons ride in ease, without crowding—

New heights of power, acceleration and general performance from the wonderful Chalmers Six engine—

Steering and gear-shifting made almost unbelievably easy by the nice refinement of clutch, transmission and steering gear; absolute quiet in the rear axle—

Riding qualities which come measurably closer to the ultimate perfection of smooth ease—

This, in brief, is the new Chalmers Six Sedan-Coach—refined and improved throughout.

Its price is hundreds less than you would expect to pay for such a beautiful body on such a chassis, with such superb performance.

By all means see this new Sedan-Coach. Inspect it with a critical eye. Test its action by any standard you choose to set.

Chalmers Motor Car Company, Detroit, Michigan
Chalmers Motor Company of Canada, Limited, Windsor, Ontario

The
CHALMERS
SIX

House & Garden



Among the many interesting rooms
in the Interior Decorations Number is
this view inside an English cottage

ABOUT eight years ago House & Garden came on the idea of "The Little Portfolio of Good Interiors." It found so much favor among our readers that a few years later we added the "Group of Houses" as a regular feature. With April we are trying a third type of portfolio, this time gardens being shown in a three-page group. Thus the three great subjects to which the magazine is devoted will be presented in a concise and inspiring pictorial form, which should prove an addition to the scrapbook of the home lover. In this next issue will also begin a series of graphic charts on the characteristics of the great furniture periods. This, again, is a feature that can easily be cut out and saved.

But why do we suggest that "Cut-out-and-save" idea? Because we have found that House & Garden readers have developed the habit. We think it a good one and we are trying to make it a magazine that you simply cannot forget. Perhaps the easiest way is to save the entire magazine, advertising and all. Advertising? Yes, that is quite important. In

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fact, some of the advertising copy is equally as beautiful as the text illustrations. And this is as it should be. Advertising in American class magazines has attained to a high art.

And there is another reason why you should save the advertising pages. The editorial matter naturally awakens an interest in the objects shown. You ask, "How do I do it?" or "Where can I get it?" or "How much does it cost?" The text tells how to do it. The advertising pages and the Information Service tell where it can be had and its cost. This applies to all three subjects—gardening, decorating and building.

First and last House & Garden is a practical magazine. It is deliberately built so that it will assist its readers in the making and maintenance of their homes. No small ideal. That this is a subject of vital interest is proven by the way the circulation of House & Garden has steadily advanced. And that its readers take advantage of its opportunities is again proven by the way advertisers come forward to use its pages as shop windows for the display of their wares.

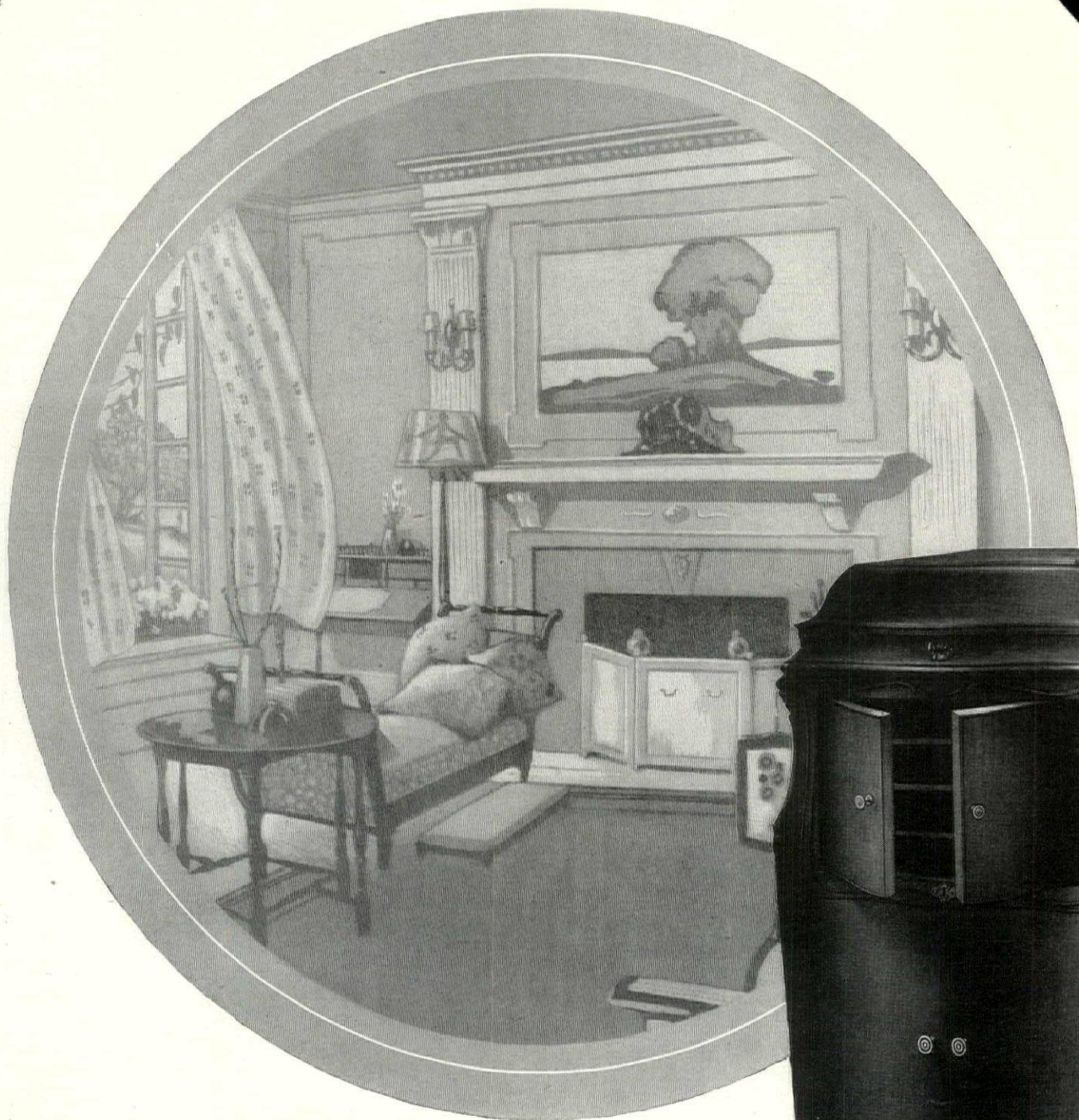
Volume XLIII, No. Three

Subscribers are notified that no change of address
can be effected in less than one month

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Title HOUSE & GARDEN registered in U. S. Patent Office

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People express themselves in their possessions. Not by the cost but by the merit of those possessions.



Victrola No. 130
\$350

Victrola No. 130, electric, \$390
Mahogany or oak

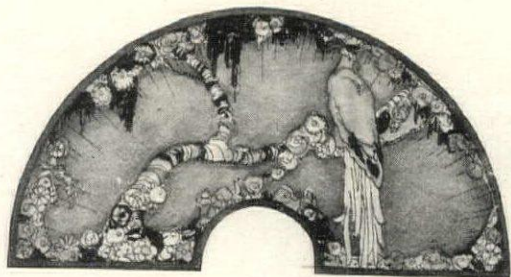
Other styles \$25 to \$1500



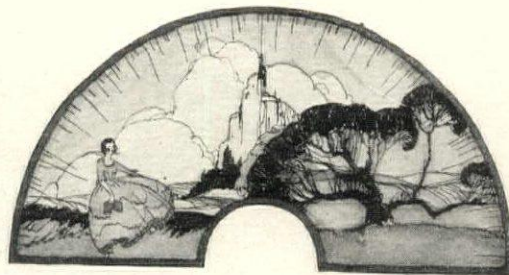
Victrola

REG. U.S. PAT. OFF

Important: Look for these trade-marks. Under the lid. On the label.
Victor Talking Machine Company, Camden, New Jersey



The HOUSE & GARDEN BULLETIN BOARD



A CERTAIN woman of our acquaintance (a woman of parts) said recently that for the past five years she has read herself to sleep each night with the "Imitation of Christ" and a seed catalog. This is precisely the balanced reading diet one should have before sleeping—the pious ecstasies of St. Thomas à Kempis tempered by the dream-evoking phrases of Messrs. Henderson, Burpee and others. In fact, bed is the proper place in which to read a seed or nursery catalog.

The desirable feature of any bedside book is that it consist of "short pieces". The chapters should not be extensive nor the paragraphs long. Turn to your "Imitation of Christ." It is a series of miniature chapters and Lilliputian paragraphs and the subject is constantly changing. Take up any seed or nursery catalog—it is the same. "I would rather feel compunction than know its definition." Thus St. Thomas à Kempis... "The Campanula are easily grown, and make a wonderful show during the latter part of May and early June." Thus Mr. Burpee. . . . "It were more just that thou shouldst accuse thyself and excuse thy brother." So says St. Thomas. Having thought on this you learn, from the words of Mr. George Peterson that " 'Defiance' is one of the most striking and most showy of the single peonies."

Just as St. Thomas is a book for certain moods, so is the seed catalog. One should not sit down and force oneself to read either. Each is a mental biscuit and is best enjoyed when nibbled. Read a line and think. Read a line and dream.

In placing Mr. Henderson and his *confreres* on the same bedside table with St. Thomas, we mean no disrespect to that ancient divine; we have a notion that he would have been glad to have shared their company.



THE other day there was buried in London, with the pomp of a Church service, a choir and brass band procession, a long following of mourners and a crowd lining the curbs, a flower girl who had sold buttonhole bouquets on Ludgate Hill for forty years. She was what might be called the Dean of London's flower girls and four decades of men had bought from her and caught her cheery greeting. This thing probably can never happen in an American city. Our men aren't flower wearers, and consequently we see but few flower peddlers along our streets.

In summer, of course, you will meet an occasional commuter wearing his little knot of bachelor's buttons or a daisy that he has snatched as he left his garden, but at other seasons of the year the custom is unmarked. In fact, the man who in winter bothers to drop into a florist's for his morning's rose or carnation is looked upon as a dandy.

For eight years, as we walked up Fifth Avenue to our office, we have invariably met one lone New Yorker wearing a boutonniere, Mr. Samuel Untermyer, the learned attorney and master of the beautiful gardens at Greystone-on-Hudson. Sometimes he not only wears a flower in his buttonhole but is carrying a bouquet of them for his office. We have always respected him for that.

Other business and professional men might well follow his example. We have permitted a good custom to die out.



NOW that the Senate, by refusing an appropriation of \$360,000 for free seed, has put an end to this silly and iniquitous "graft", perhaps Government officials will turn their attention to some of the silly and futile phrases of Quarantine 37. Perhaps, also, it might do well for the Government to supply with each passport, a copy of the Plant Quarantine regulations. It would give American garden lovers traveling abroad a hint of what they are not permitted to bring into the country. There is an amazing ignorance of this quarantine. Americans go abroad, visit the beautiful nurseries of France, England, Holland and Germany, start to order a shipment of plant material to be sent to their gardens at home—and suddenly discover that this is forbidden. It is a rude awakening. When they return home and ask the reason why, they discover that, according to the Chairman of the Federal Horticultural Board, "the ordinary plant lover is not, as a rule, doing any public service."



THE automobile filling station began its existence as a purely utilitarian building, and like many utilitarian beginnings in this country, there was no attempt to make it attractive. There are still countless eye sores in towns and cities and along the roads. Although a decided effort to correct this is now evident, a great deal of work still lies ahead. Why is it not possible for our big oil and gasoline companies, in addition to building presentable architectural filling stations themselves, to encourage, stimulate and even insist on other agents erecting stations that are pleasing in design? To one that is presentable and attractive you pass half a hundred that are mere shacks.

The landscaping of these stations is another desirable feature. Some attempt has been made to use evergreens, but we would suggest that, unless the station is on a paved and almost dustless street plant material be chosen for its ability to resist dust and gasoline fumes. In this list would come the sumachs, arborvitae and barberry. Color could be placed in flower beds, using some of the bedding plants in not too formal designs.



THIS country, famous for many libraries on specialized subjects to which scholars can go for authoritative and comprehensive work, is singularly lacking in one respect. We have excellent libraries of history books, quite adequate libraries on exploration and geography, on horticulture, on law, on medicine, but we have no one group of books on furniture, decoration and architecture, decoration and furniture especially, comparable to the library of the Musée des Arts Decoratifs in Paris. Our public libraries in New York, Boston and Chicago have sections devoted to these subjects, and many volumes are to be found in museum libraries, yet the subject of furniture and decoration still lacks an adequate collection. One of our generous millionaires might well consider this as an object for his munificence. He might follow the example of M. Doucet of Paris, who, ten years ago, sold his priceless collection of furniture and devoted the proceeds—14,000,000 francs—to the founding of just such a library, to which architects, artisans, artists, decorators and students of these arts might go for consultation.

THE other day a bookworm, searching in the shadowy corner of a second-hand shop, unearthed some early 18th Century books on theology that he thought might prove amusing. But the price seemed a bit high. "Let me have the title pages," said the proprietor "and I'll cut the price in half." "But what will you do with the title pages?" the bookworm asked. "They're dated," he was told. "I sell 'em to antique furniture makers. They paste 'em in 'old' bureau drawers and such. Proof positive that the piece is a 'genuine antique.'"

This we add to that body of legends regarding "antique" furniture, to the story of the worm-hole maker who died recently in Grand Rapids, to the legend of the machine that makes linen-fold paneling by the mile which dealers later sell by the precious foot.

The literature of faking is very ancient and extensive. One of the Roman authors complained of the fake antiques made in his day. John Evelyn, visiting Italy, in 1624 found imitation furniture factories going full blast. Before the war it was estimated that in Florence alone there were employed in making ancient Italian furniture no less than 10,000 hands. The art of faking even goes back to Egyptian times, for Egyptologists have discovered that it was quite common to rob the royal tombs of their priceless furniture and jewels, supplanting them with cheap imitations. Thus Mrs. Ptolemy and the Colonel's lady both suffer the same illusion! "As new as an antique" might be added to our synonyms.

And what is that story in L. P. Jack's "Among The Idolmakers"? Of the man who made such excellent reproductions of antiques that his reproductions brought higher prices than the originals?



J. N. C. FORESTIER, who writes on the Roserie of L'Hay, is author of "Jardins", a book of garden design, and has to his credit, among other notable landscaping achievements, the present design of the Roserie in the Gardens of the Bagatelle in Paris.

James L. Greenleaf, who designed the garden of W. H. Croft, is well known for his landscape creations. Among them have been the gardens of George D. and Herbert L. Pratt, Glen Cove, L. I. and Ledyard Blair, Oyster Bay, L. I.

C. Matlack Price, who is beginning a new series of architectural and building articles, is author of "The Practical Book of Architecture" and has been on the staffs of various architectural and decoration magazines. He is now in charge of the Architectural Department of House & Garden.

Richard Le Gallienne, who contributes occasionally to House & Garden, is a poet and essayist of many interesting and delightful achievements.

Ralph E. Griswold, who writes on the Villa Caprarola, is a fellow of the American Academy in Rome. His model of the villa is considered one of the finest models ever made and is indicative of the high standard of work being sustained by the American Academy in Rome. This excellent institution is supported through the generosity of Americans who appreciate the value of study in Italy to young architects, landscape architects, sculptors, painters and musicians. A movement is now on foot to increase its landscape endowment funds.





A
TEMPLE
to
the
ROSE

A formally treated amphitheater, turfed, and made architecturally delightful by a temple d'Amour and an Ionic, curved colonnade, is the climactic point of the Roserie at L'Hay, France, the greatest rose garden in the world



THE GREATEST ROSE GARDEN IN THE WORLD

Impressively Arranged With True Gallic Enthusiasm For Orderliness and Effectiveness, the Roserie of L'Hay Stands Unexcelled

J. N. C. FORESTIER

FROM the heart of Paris the shortest way to reach the beautiful rose gardens of L'Hay is to go through the Orleans Gate. The active and noisy quarters of the Faubourg des Gobelins crossed and the city gate passed, you wind through the quaint streets of Montrouge till you reach the great paved highway linking the City of Light with Orleans and Toulouse.

Soon the rumbling and dusty National Road is left behind and the trip continues along a small road, planted with trees on both sides, which cuts the Bievre Valley and the ancient village of Arcueil—though now it seems much more a city than a village—to climb the Villejuif Hill.

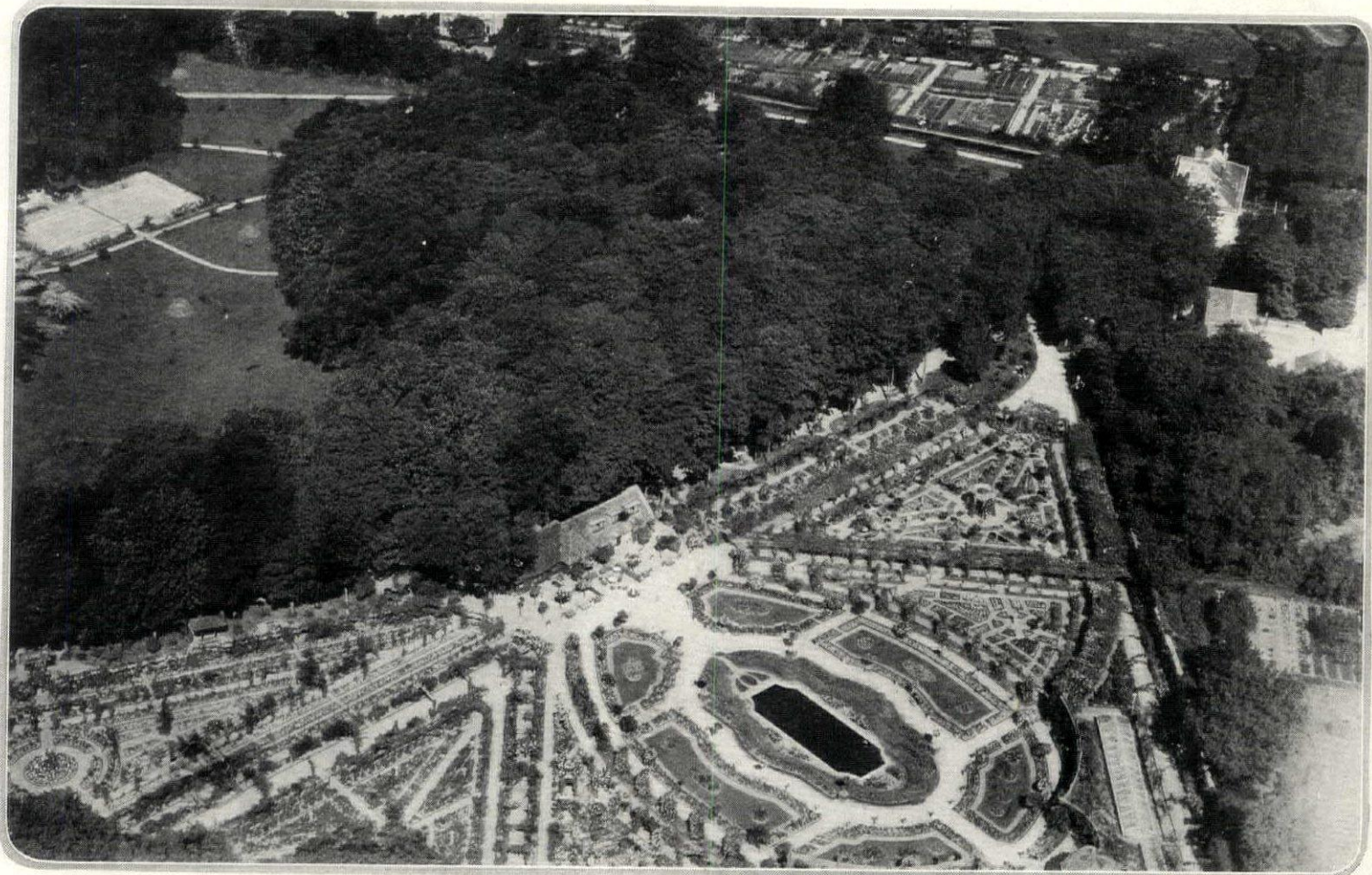
At this point the surroundings present a somewhat rural aspect. Thanks to a military mandate—on account of the proximity of the Hautes Bruyeres fortifications—the erection of country houses, which are usually built about large European cities, has been avoided.

The roadway rounds the western mountainside and offers to the eye real country scenery, well cultivated lines spotted with groups of trees here and there. At the foot of the mountain, occupying a wide opening of the Bievre Valley, a few villas can be distinguished through the green forestry curtain, alternating with the well traced vegetable gardens of Arcueil, Cachan and

Bagneux. Farther away, in the direction of Bourg-la-Reine, the landscape includes the town of Sceaux and the parks of its ancient royal chateau, with the sloped woods of Meudon and Verrieres in the background.

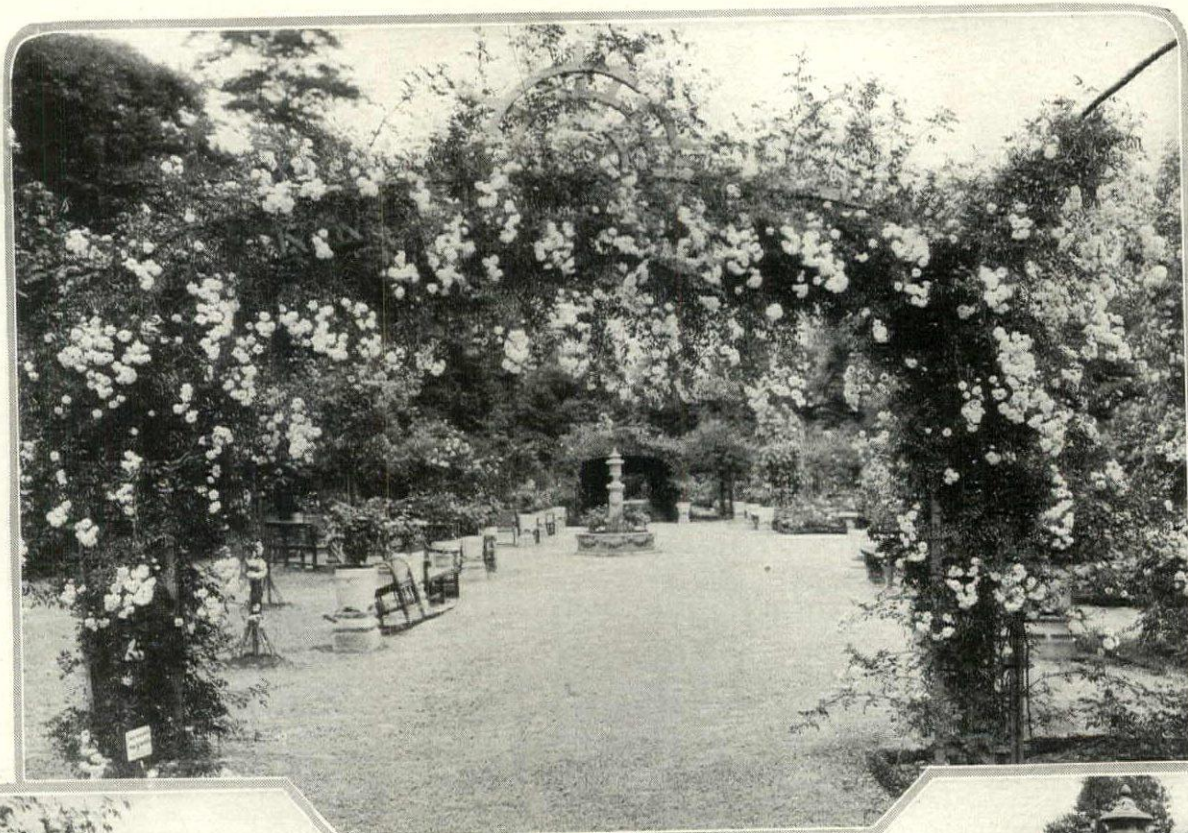
To the right, a large portion of Paris is visible, and high above the distant perspective of the Bois de Boulogne, which seems almost to touch the eminence of Saint-Germain, the Eiffel tower points towards the sky.

This picturesque roadway runs along the Plateau of Villejuif, otherwise called the Plateau of Longboyau, for about a mile and a quarter, till you reach the village of L'Hay. Two more turns of the road, cozily narrowed



From the air the rose gardens of the Gravereaux estate lie spread out below like a segment of formally patterned tapestry. The richly planned area is triangular in shape, and the radial scheme of the de-

sign centers upon the accurate reproduction of a typical half-timber cottage from Normandy which faces the grand parterre, set with a long pool and devoted to the finest roses of the great collection

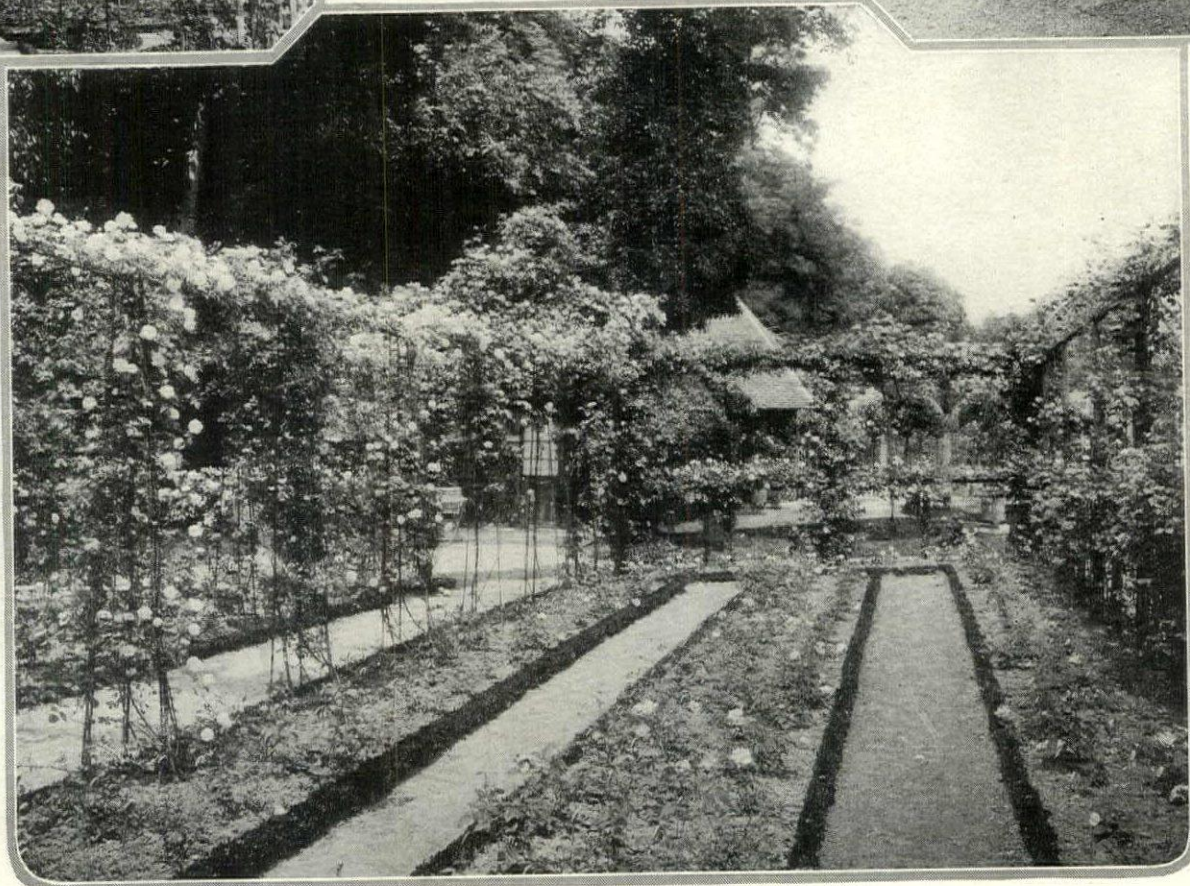


The central open space of the Roserie, smoothly graveled, and framed in heavy foliage, is entered through a wide, lattice arch covered with that lovely and familiar climber, White Dorothy Perkins



Within an enclosure of climbing roses is the long paneled garden devoted to the tea varieties. The beds are neatly bordered with an edging of dwarf box. Beyond is the chalet that is used as a rose museum

Under an arch of delicate design one passes into the "Roserie de Madame," which is Mme. Graveriaux' favorite garden, and which contains the most coveted roses of today, including such as "Ulrich Brunner," and "Testout"



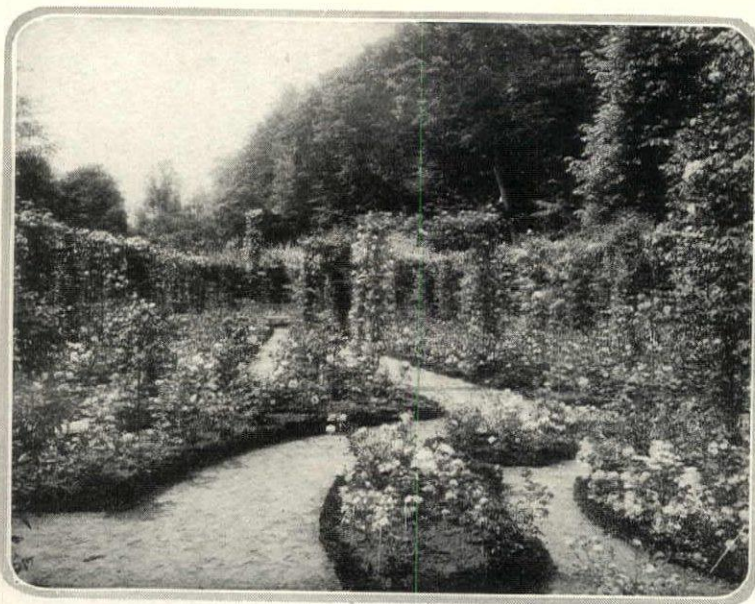
The baroque jardiniere, with which the central part of the Roserie is set, is shown above in detail with its unusual base planting of standard roses. The variety used here is named after the wife of the French Premier "Mme. R. Poincare"

by ancient walls, and the Roserie of L'Hay is reached.

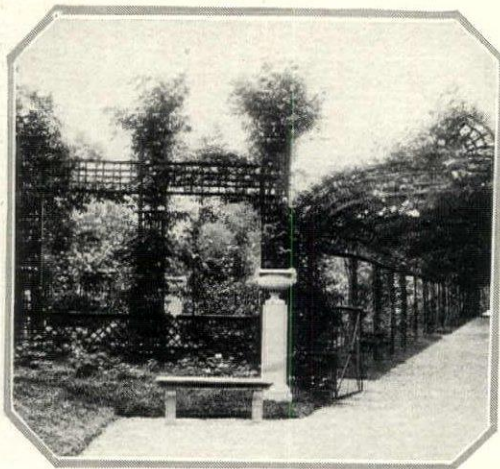
The rose gardens of L'Hay, which for the past two centuries have been the vacation grounds of wealthy Parisians, are now the property of Mme. Graveraux. On the terrace, dominating the lands below, there was formerly a castle called la Tournelle de L'Hay, once owned by the ill-remembered Queen Isabelle, wife of Charles VI of France, and where died, a few years later, the proud and handsome knight Dunois, son of Prince Louis d'Orleans, who fought beside Jeanne d'Arc to deliver the soil of France from the English.

About 1810 the best located portion of the domain became the property of Henri Auguste, appointed goldsmith to Napoleon I, and son and grandson of the goldsmiths of the French kings Louis XV and XVI. It was he who constructed the present mansion over a century ago. Respecting the traditions of the palace, Mme. Graveraux has framed and placed in the Reception Hall a list bearing the names and titles of its successive owners.

The old familiar fence encloses a pretty, shaded yard. The house, of measured proportions, has the character and design of the villas built in the environs of Paris from the end of the 18th Century to the days of Napoleon I. The gardens form a balcony for this, facing south, and continue the terrace. In the gardens, almost concealed by the foliage, is a dainty Norman chalet, an annex necessary for the comfort of a large family. Towards



The mass of bloom in this particular section of the Roserie is almost bewildering; the result of planting all the roses of one variety, or of a similar variety, in the same location and getting thereby, a nearly simultaneous flowering



Within the space surrounded by this arbor and treillage are planted the roses noted for their sweet scents; varieties from India and Persia and China

the right is the beautiful vista of the sunny terrace and to the left, behind the Norman chalet, under the shadow of centenarian trees, several climbing alleys lead to the scented and world famous Roserie.

All sorts of flowery arches and porticoes surround the numerous rose beds. In the midst of these, facing a high semi-circle of light wooden framework covered with roses, the calm surface of a pool mirrors the flowers. Low hedges surround it, each one bearing a different variety of roses.

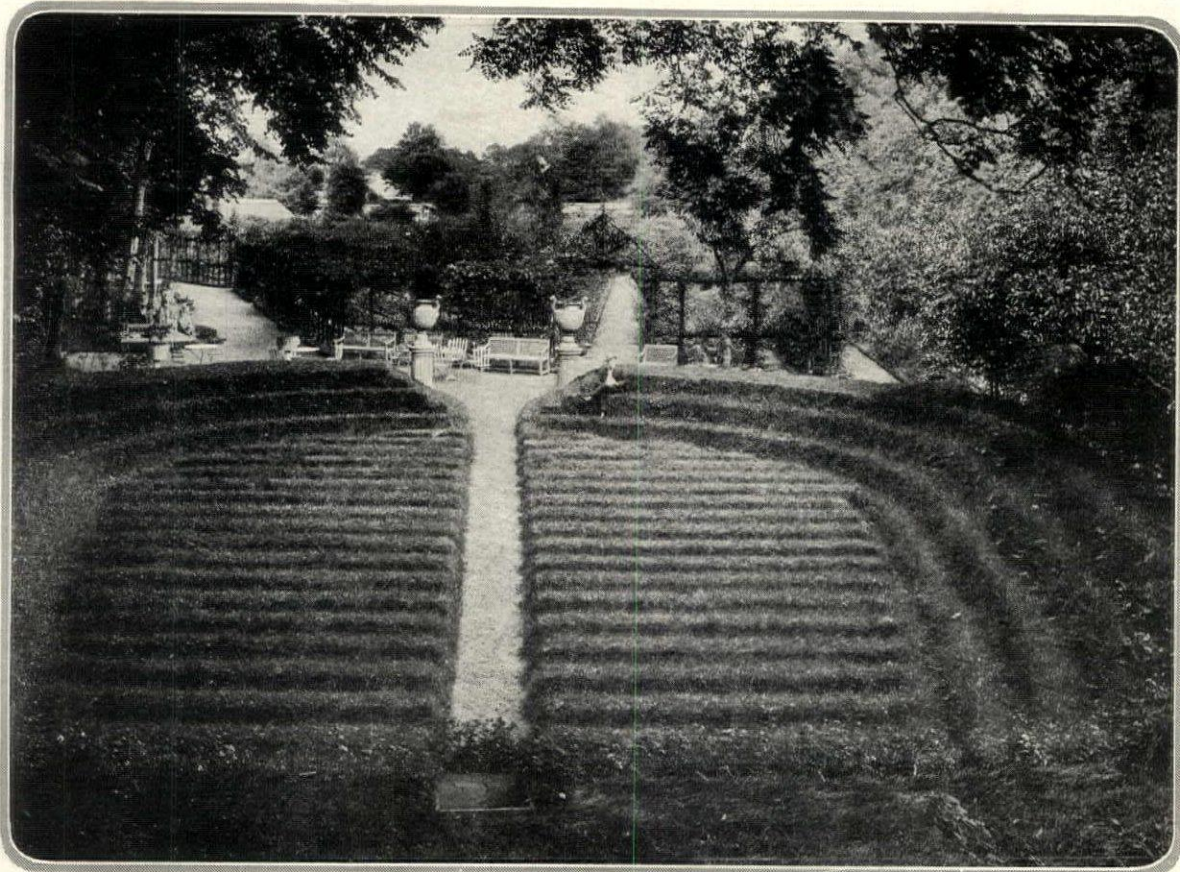
The first two rectangular bushes at the entrance of this large adorned enclosure are, from right to left, "Joseph Guy" and "Redhoette" roses respectively. It is the spot reserved for the prettiest blooms.

Here can be admired "Caroline Testout", "Capitaine Christy", "Mme. R. Poincare", "Commander J. Graveraux", "Candeur Lyonnaise", "Souvenir de Claudius Pernet", etc. The flowers are all of one color.

Many persons of taste prefer the vigorous masses of similar shades of flowers, and this idea is oftentimes a principle in the composition of a whole rose garden.

Thus, the many arches, porches, and frames are covered with one distinct variety of roses, and so part of the garden bears all red roses and another part pink, then, further away, placed in a group, the yellow shaded roses, gradually fading until the white ones are reached. This is a beautiful theory indeed, but often-

(Continued on page 100)



At the apex of the Roserie is the Theatre de Verduze, with its sloping gallery of broad, turfed steps that serve to seat the spectators of the pageants below

The Gardens of **H. W. CROFT**

Greenwich, Ct.

James L. Greenleaf
and Ellen Shipman

Landscape Architects



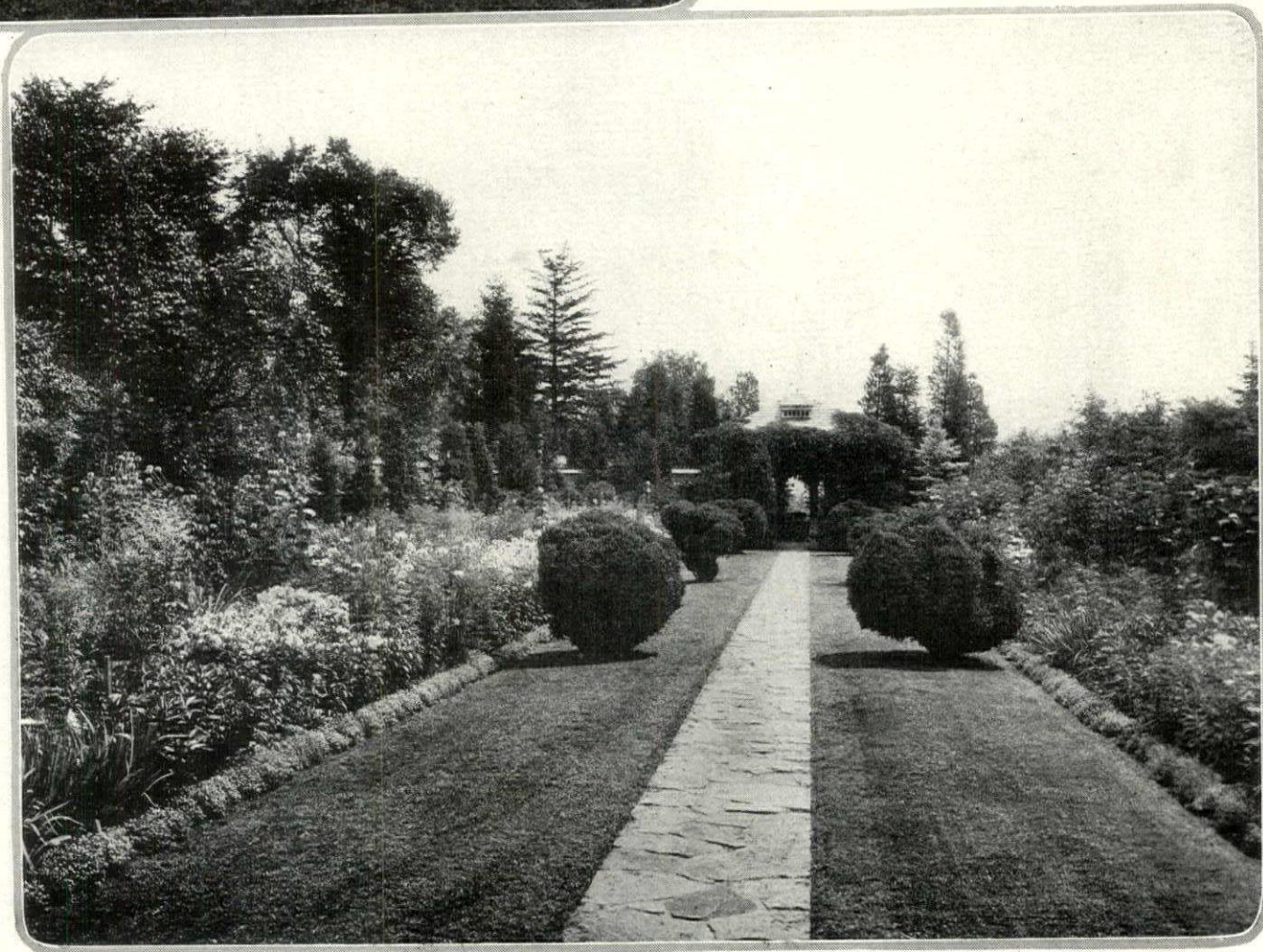
M. E. Hewitt



Four pyramidal arborvitae serve as accent points at the intersection of two turfed, forget-me-not bordered paths. Ellen Skipman, landscape architect

A high brick wall, pierced by an attractively designed gateway, forms the background for the herbaceous border. Massed box solidifies the planting

The long lines of the great double herbaceous border are nicely broken by bushes of old box-wood, while down the center of the grass way a flagstone path leads invitingly into the shade of the summer house





A broad flight of low stone steps, on which hydrangeas in tubs are effectively placed, separates the house terrace from the lawn. Mr. Greenleaf, the landscape architect of part of these grounds and gardens, is the designer of some of the largest estates in the country, and the winner, two years ago, of the Architectural League medal for excellence in landscape architecture. The subsequent splendid work of Miss Shipman on the same estate is being shown at the current exhibition of the Architectural League of New York



One of the entrance paths to the house was laid between two rows of great elms, a feature of the place which gives it at once an air of age that could otherwise have been attained only in time or at the considerable expense of big tree moving

One of the most delightful parts of the gardens is the path which leads off from the garden between hedges of formally clipped hemlocks. After the color and brilliance of the herbaceous borders it is a fine note of simplicity. Ellen Shipman, landscape architect



THE STARS AND FLOWERS

*There May Be More Wisdom in The Ancients' Floral Astronomy
Than We of a Material Age Suspect*

RICHARD LE GALLIENNE

"OF ALL causes the remotest are stars," says Robert Burton in "The Anatomy of Melancholy", that charming old rag-bag of romantic learning, in which fascinating nonsense and shrewdly humorous wisdom are thrown together with so wayward an art. He is discoursing on the possibility of planetary influence on melancholy in general and particularly on the melancholy to which lovers are so notoriously subject. He will not exactly commit himself. "I will not here stand to discuss, *obiter*," he says, "whether stars be causes or signs; or to apologize for judicial astrology"; but it is evident that his is not that wholesale scepticism which "will attribute no virtue at all to the heavens, or to sun or moon, more than he doth to their signs at an inn-keeper's post, or tradesman's shop."

One gathers that he is inclined to the opinion that there may well be "something in it", and his open-mindedness on the question is one which some scholars and even men of science not given to credulity have retained up to the present day; even so sound a scholar and humanist as Dr. Richard Jarnett, for instance, who was convinced that astrology has a foundation of truth. Indeed, so many such "dreams at the dawning of philosophy" have of late been proved to have an essence of scientific truth that we may well pause before dismissing them to the lumber-room of superstition.

HERE is one important virtue to be urged in favor of such old "pseudo"-sciences: they preserved that proper attitude of awe and wonder before the mysterious phenomena of the universe, which we are in danger of losing by our familiar everyday acceptance of them. As Carlyle said, we live too much at ease in the midst of wonder and terror, "in the centre of Immensities, in the conflux of Eternities". For example, when a few weeks ago M. Marconi was able for the first time in the history of the world to talk by wireless telephone between England and America, how calmly we took the astounding news! We have supped so full of scientific wonders that we took it for granted; and thus the more marvelous the Universe is demonstrated to be, the less sensitive we are becoming to its marvel. Instead of further spiritualising us, it seems in danger of doing the precise opposite. Our only interest in each new scientific discovery, each new advance towards the "Unknowable", seems to be to what materialistic "business" uses may we apply it. We have taken Emerson's counsel to hitch our wagon to a star in a quite different way from what he meant by it, and we act as though the only use of the stars, of the celestial forces, was in the propulsion of our earthly wagons.

THE old "superstitious" attitude was essentially finer, and tended to our thinking more "nobly of the soul." According to astrology, not only human life, but all the physical life of the earth was influenced by the stars. "Colours, metals, stones, plants, and animal life of all kinds were associated with

the planets and placed under their tutelage", and thus all existence was "bound with gold chains about the feet of God". Nothing was isolated in the universe, but all created things were interdependent.

"Detached, separated," again cries out Carlyle, in his inspiring mysticism, "I say there is no such separation: nothing hitherto was ever stranded, cast aside, but all, were it only a withered leaf, works together with all." Recent scientific discovery tends to corroborate this mystical attitude, but all too many of the "professed enemies to Wonder" continue to regard the most stupendous and mysterious facts of the universe as cold scientific facts and no more. The stars are just stars.

A S A correction to this prosaic attitude,—an attitude which, in leaving out the element of mystery that remains and must ever remain in "physical" life, however closely we may track some of its processes, leaves out the most important fact of all,—it is far from unprofitable for the modern botanist and flower lover to dip occasionally, if only for amusement, into the writings of those old "herbalists" who linked their botany with astrology, and who held that there is a connection between stars and flowers. There would seem to be more than poetical imagery in Longfellow's beautiful lines:

"Silently, one by one, in the infinite meadows of heaven,
Blossom'd the lovely stars, the forget-me-nots of the angels."

AMONG herbalists, Nicholas Culpeper was, even in his own day (1649), regarded as something of a quack, but he was not alone in regarding the virtues of certain herbs as operative through the influences of the stars. His business was to consider them as curatives of disease, and he declared that "he that would know the reason for the operation of the herbs must look up as high as the stars"—a remark capable of profound and inspiring interpretation. And he continues, "it is essential to find out what planet has caused the disease and then by what planet the afflicted part of the body is governed. In the treatment of the disease the influence of the planet must be opposed by herbs under the influence of another planet, or in some cases by sympathy, that is each planet curing its own disease." "Plants must always be picked according to the planet that is in ascendant."

Culpeper, of course, was only echoing a very ancient belief in the efficacy of planetary influence, beneficent or maleficent, on the various potencies latent in herbs and flowers.

Shakespeare is rich in references to this magical lore. "In such a night, Medea gathered the enchanted herbs that did renew old Aeson," one recalls from the loveliest of all moon-drenched passages in "The Merchant of Venice", and "the slips of yew", it will be remembered, blended in the hell-broth of Macbeth's witches were "slivered in the moon's eclipse".

Miss Eleanor Sinclair Rohde, in her fascinating book on "The
(Continued on page 102)





M. E. Howitt

A GARDEN OF TRANQUIL DELIGHTS

Heavily framed in the foliage of deciduous shrubs and broad-leaved evergreens, the lily pool in the garden of H. W. Croft, at Greenwich, Ct., has a deep and quiet charm. Beyond the pool stone

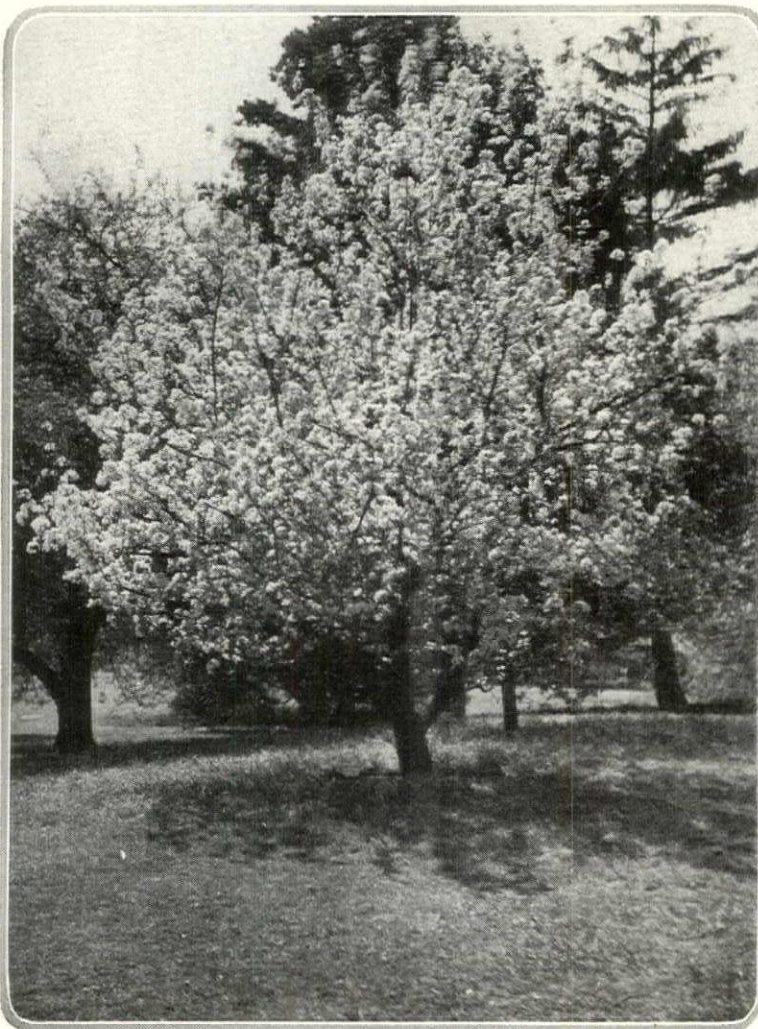
steps, guarded by a pair of tall, clipped evergreens, connect two terraces and climb easily to a well designed arbor overlooking the scene. Ellen Shipman was the landscape architect



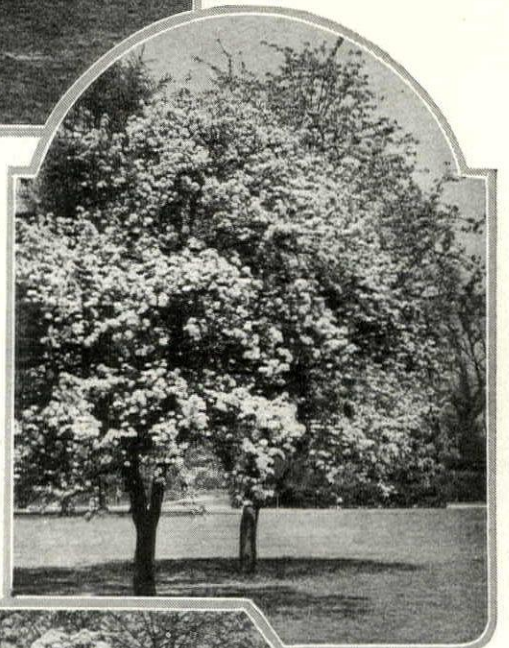
"BLOSSOM
by
BLOSSOM
THE SPRING
BEGINS"

Of all the sights of early spring none seem able somehow to equal in pure splendor that of the flowering trees, whose branches are crowded with blooms in pink and white, often sweetly scented

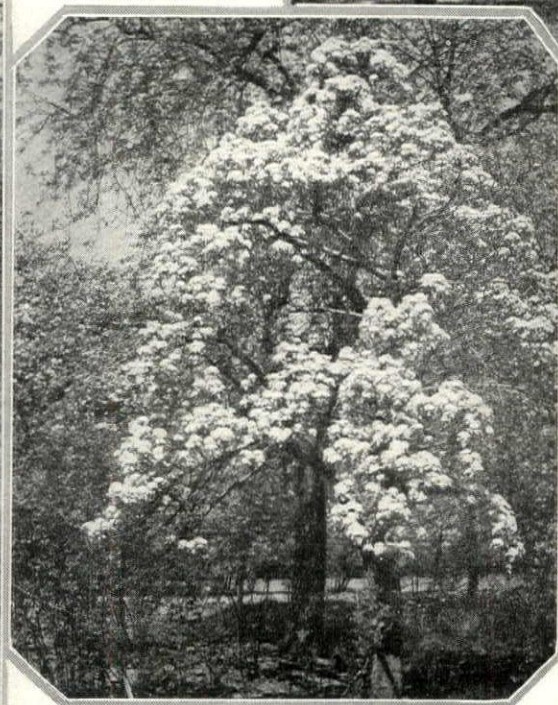
Very few of the ornamental shrubs, even the heavy laden spireas and forsythias, compare with such a tree as this white clustered Mazzard cherry, *prunus avium*, whose blossoms precede its leaves



The blossoms of this small-growing flowering crab, *pyrus scheideckeri*, open early in May; are large, double, and tinged with pink



Pears, too, are members of the polymorphous genus of *pyrus*. This one, snow pear, *p. sinaica*, has April blossoms of purest white



Said to be a hybrid of the common pear and the white beam tree is this flowering pear, *pyrus auricularis*, blossoming white in May

A STUDY in EARLY FLOWERING TREES



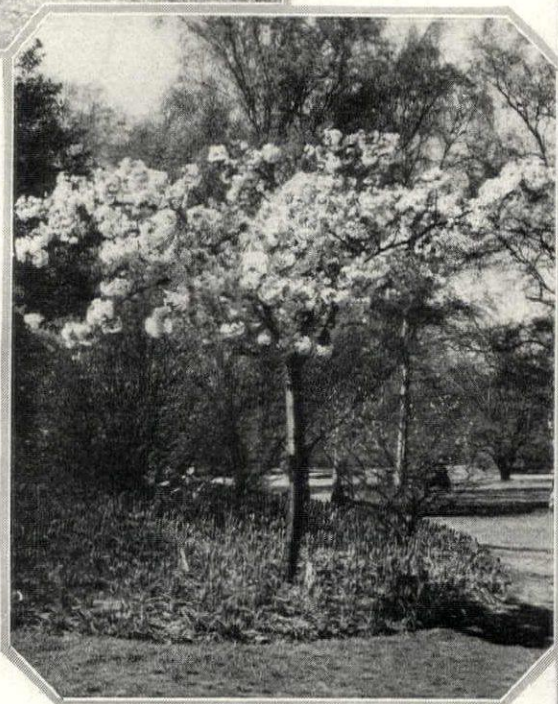
Not unlike snowy puffs of pop-corn the pure white blossoms of the Japanese flowering cherry appear in late April in clusters of from three to five blooms achieving quickly a thrilling beauty

The Japanese cherries, like most of the flowering trees, may be used for their masses of spring color on the lawn, to guard a gateway, to frame an arbor, or to border a long and narrow garden path

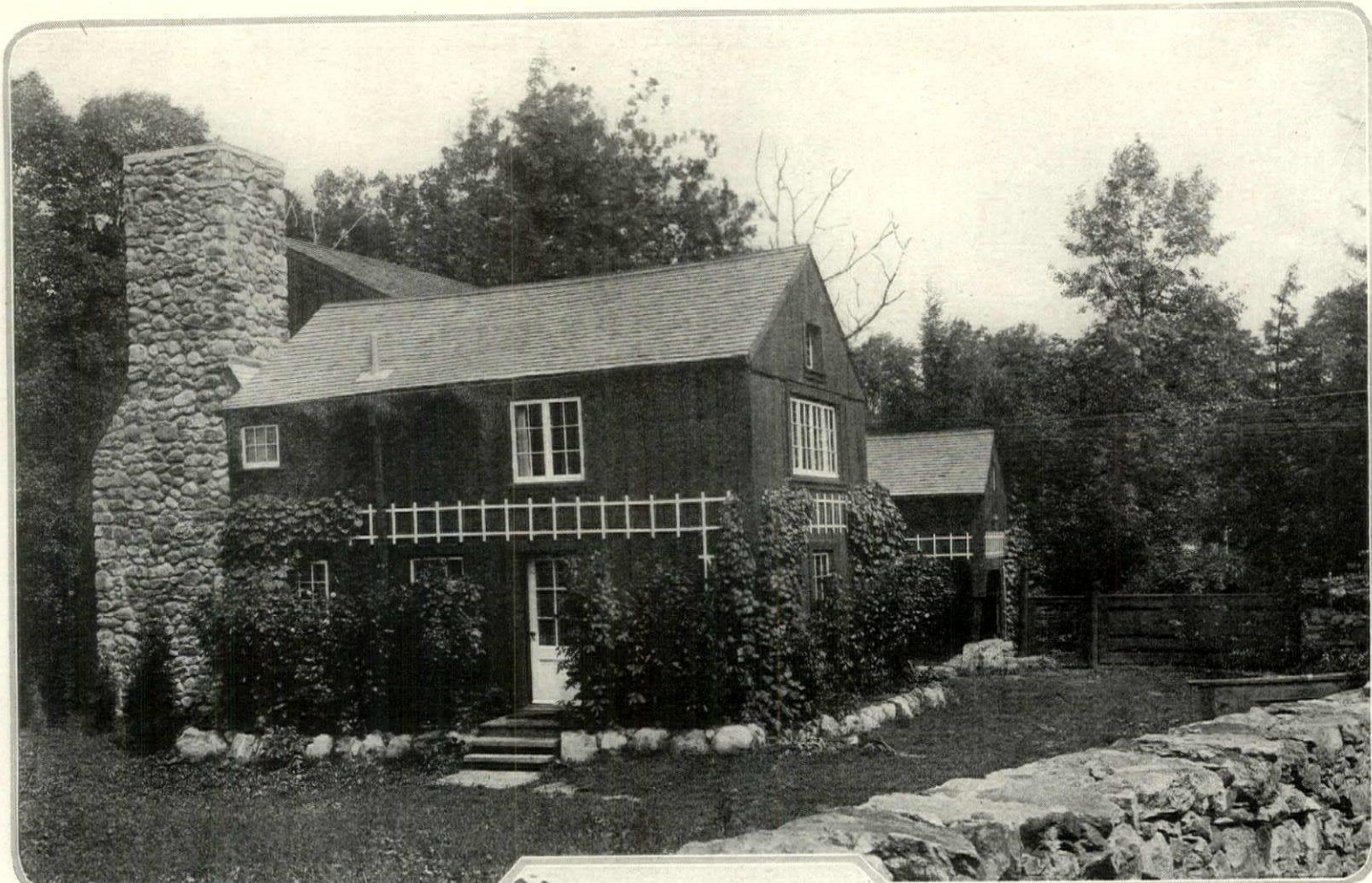
The blooms of this small spiny tree *pyrus eleagnifolia*, a variety of the snow pear, cluster along the bare branches toward late April



One of the finest effects to be got with the white flowering trees is the color repetition they make with the house's white painted trim



In Japan the little fruits of the dwarf flowering crab, *pyrus Sieboldi*, are gathered after frost and preserved. The flowers are a faint blush



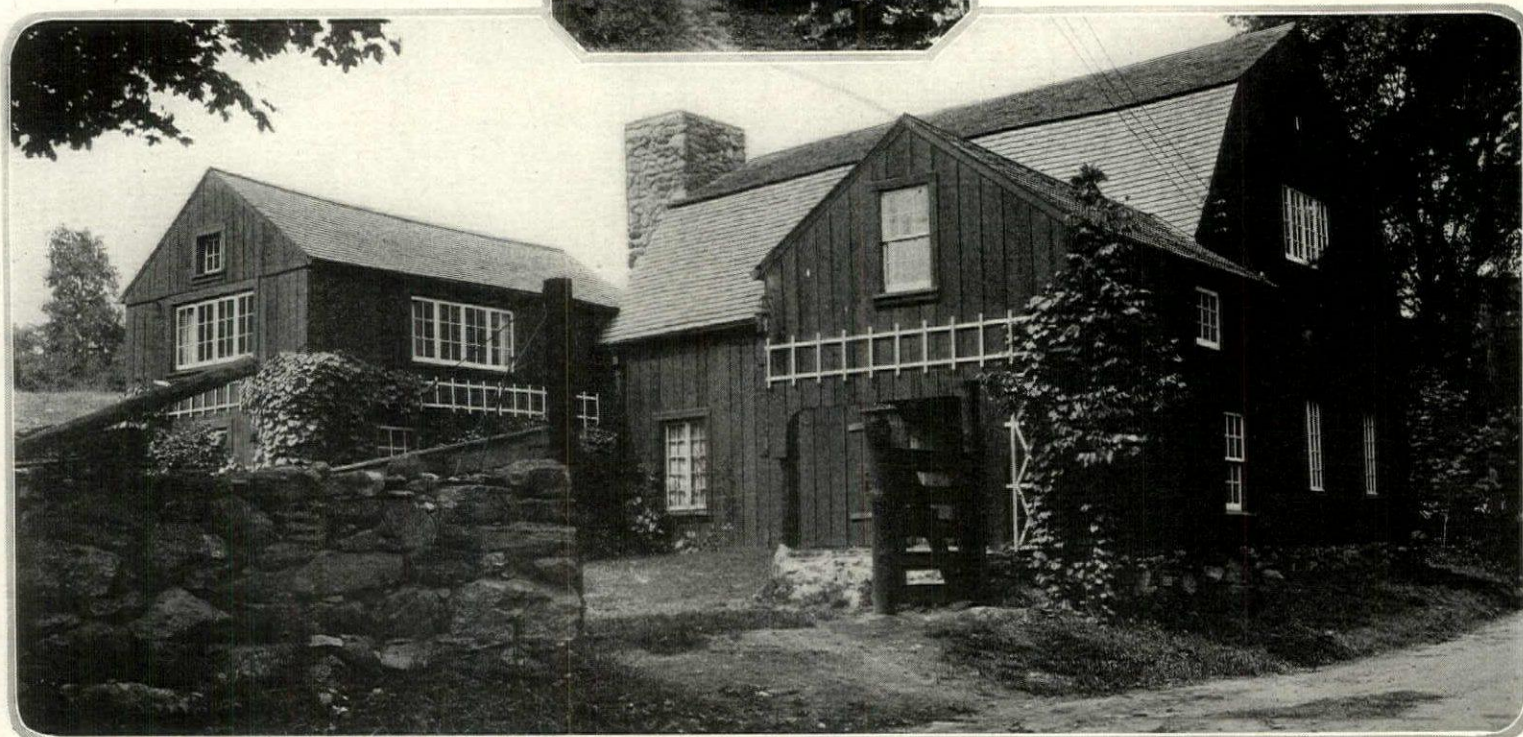
Tebbs

"Three Barns", at Silvermine, Connecticut, the studio home of Mr. and Mrs. John Kenneth Byard, was ingeniously contrived from three old barns, in a manner both picturesque and habitable. The massive chimney of local fieldstone connects two of the barn structures, and aids the architectural composition of the group. John V. Van Pelt was architect of the alterations



A glimpse through one of the barnyard gates in the stone wall surrounding the studio grounds. The great stone chimney rising behind the simple lines of the barn structure, creates a picture of domesticity achieved without any architectural effort

One of the charms that make "Three Barns" consistently picturesque is the old wooden barnyard gate opening from the road to the forecourt. White lattices against the red siding add incident, and will aid climbing vines to soften the walls



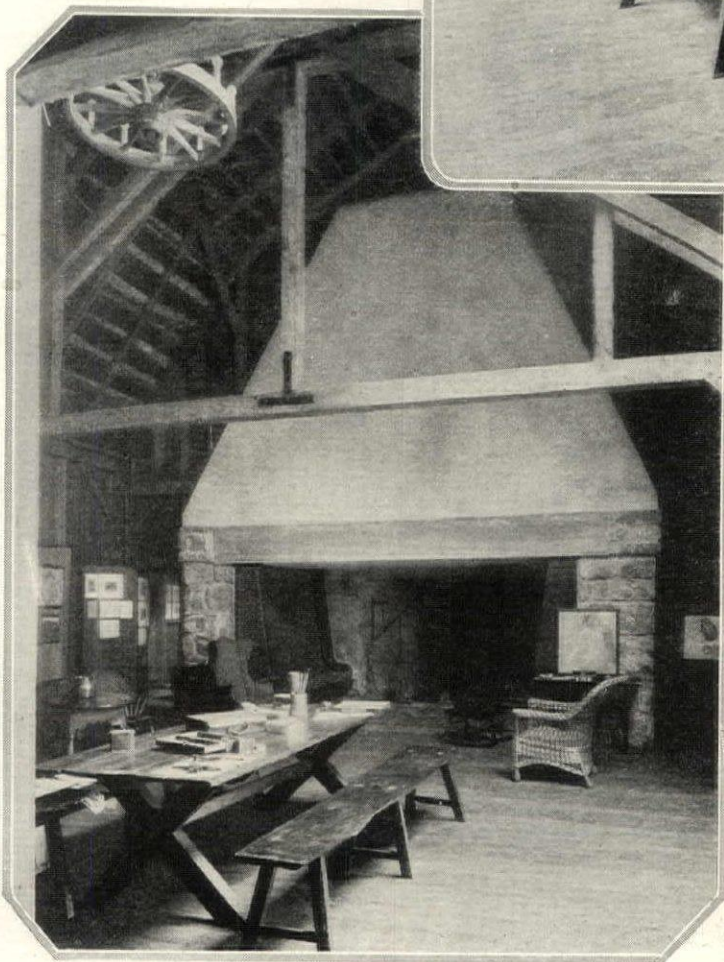
"THREE BARNS"

An Architectural Trilogy

HARRIET SISSON GILLESPIE

RESTORING old houses and remodeling barns into charming homes without loss of their original character has become a fascinating game for architects. It has been done exceedingly well many times, but perhaps never more effectively than in "Three Barns", the studio home of Mr. and Mrs. John Kenneth Byard at Silvermine, Connecticut. Here is one of those happy architectural inspirations that now and again delight the lover of the picturesque. In this case, it is the renaissance of a primitive farm group to meet the demands of modern living without the loss of its personality.

The old red barn, so familiar a sight in rural New England fifty or a hundred years ago, is seldom seen now. In these prosaic times, then, to catch a glimpse among the Connecticut hills of a quaint gambrel-roofed



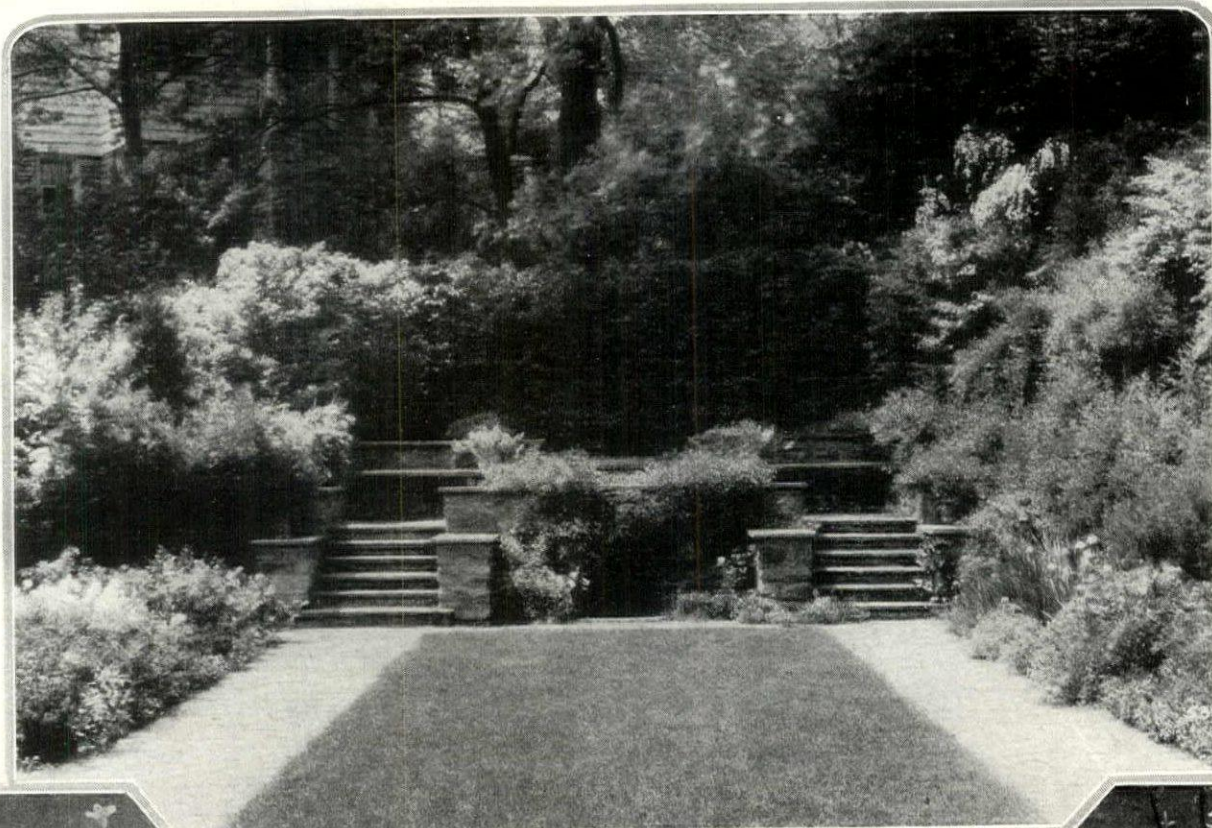
A stairway of rough-hewn oak was built to replace the ladder which led to the hay-mow—now converted into a balcony. In character with the interior are the benches and trestle table

The old-fashioned fireplace, with generous ingle-nook and high-backed settees, will burn 8' logs. Behind its massive hood is a "drying room", as in days of old, for rain-wet coats

structure, with its flare of rich color and other unmistakable signs of its ancient lineage, affords the experience-hunter a thrill of real pleasure. And to discover further that the old relic of Colonial days has been remodeled to present day uses, though still retaining the earmarks of age and the homespun aspect of its traditional calling, is of sufficient interest to make an impression upon even the lay mind.

Built close to the old country road, as was the custom in Colonial days, and near a lively little stream from which the settlement takes its name, "Three Barns" consisted originally of a trio of weathered and time-worn buildings of which the gambrel-roofed barn was the important feature. A carriage shed adjoining and a smaller addition in shape of an "L" formed a courtyard. Entrance to this is effected through a typical and highly picturesque barn gate.

(Continued on page 98)

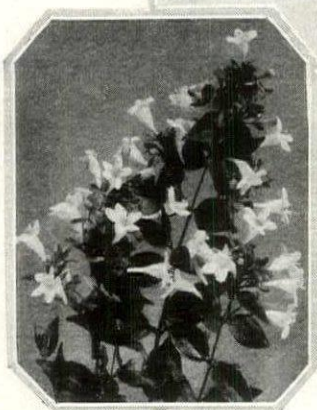


Healy

With a horn-beam hedge for a background, with banks of bridal-wreath and bush honeysuckle on either side, and deutzia gracilis in the borders, this garden shows the importance of shrubs in the planting scheme. Clarence Fowler landscape architect

FIFTY GOOD FLOWERING SHRUBS FOR THE GARDEN

RICHARD H. PRATT



McFarland

The pink blossoms of bush arbutus, *Abelia grandiflora*, appear in late summer and last until fall

SHRUBS seem to contain in a nice degree the qualities both of trees and flowers. They have body as well as bloom. It is possible to make a garden altogether of flowering shrubs, and it is likewise possible to create with them effective shade and shelter. In fact, no other type of plant is quite as versatile.

Among their endless varieties there are kinds for almost every purpose in the planting of the grounds and garden. They may be used in masses to soften the angles between the house and its site, to fill in the harsh corners of the lawn, to bank against the curves of walks and drives, to cover slopes and to form enclosures. Used individually they are every bit as valuable, whether they serve as spots of brilliant color or as accents at important points.

The shrub family is so extensive and various that the compilation of a representative list of 50, together with the classifying of the purposes to which this 50 might be put, could not possibly be accomplished in a short article. Therefore, the broad-

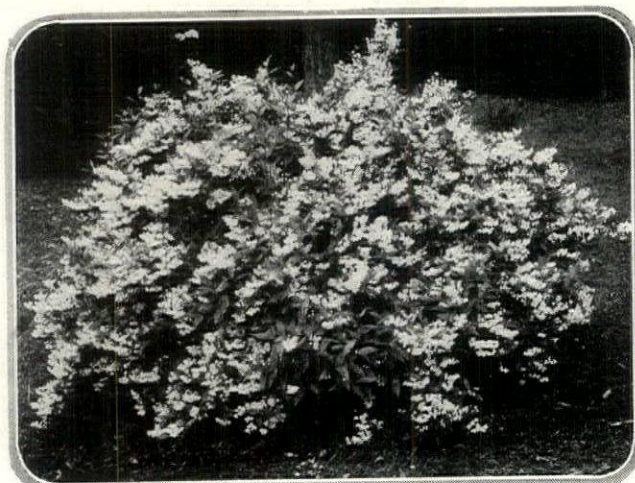
evergreen branch of the family, with its rhododendrons, laurel, azaleas, fetterbush, and Japanese hollies, will be eliminated. The shrubby roses will be ignored. Small trees that are loosely called shrubs will be admitted only in a few pressing cases. What remains is still, of course, a stupendous group.

Fifty typical varieties will be described and, in order to make the list more valuable and useful, the shrubs will be grouped into five different classes: those which are most suitable for heavy masses, such as the

outside frame of the garden; those which are especially fitted for covering slopes; those which, because of their somewhat herbaceous appearance, may be used in the borders among the perennials and annuals, and finally those which, because of their beauty of form and color, can be placed as accents in the garden.

SHRUBS FOR MASSING

Service-berry, *Amelanchier canadensis*, known more generally as shadbush, is a splendid shrub to use outside a garden that is set in a woody situation, for it attains eventually a considerable height (sometimes as much as 30') and its loose habit of growth gives it the proper character for surroundings of that sort. In the Spring it is covered with a mass of white flowers in short racemes, and in the late Summer or early Fall its branches are hung



McFarland

One of the most attractive of the smaller shrubs is *deutzia gracilis* with its pink, sometimes white, flowers



While the branches are still bare the yellow flowers of *forsythia viridissima* line the stems



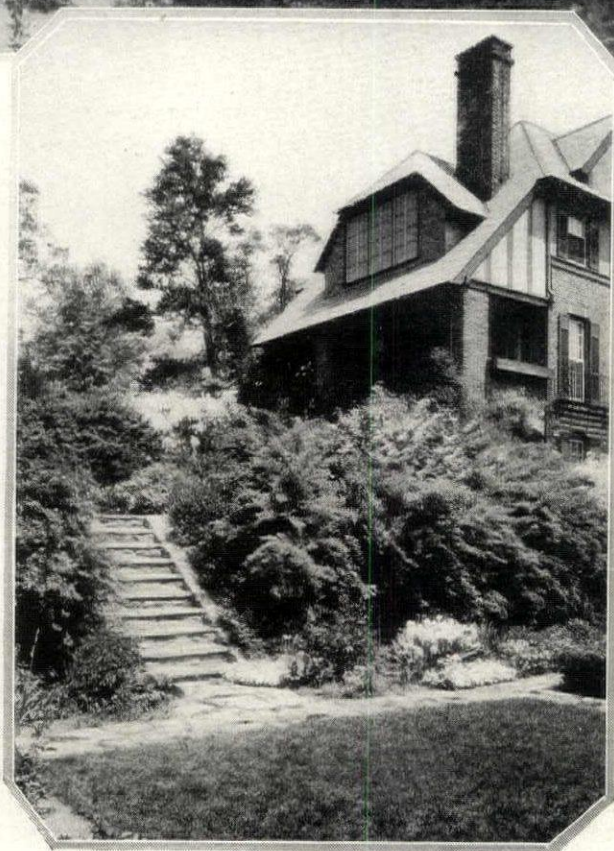
Two of the *viburnums*, varieties *dentatum* and *tomentosum plenitum*, are used effectively at the entrance to this garden. Ruth Dean was the landscape architect

Where there are slopes to be turned into banks of foliage, no other plant is as suitable as the drooping, spreading shrubs. Clarence Fowler, landscape architect

Gillies

with ruddy purple fruit. When given plenty of room in the right location the service-berry will want no attention.

Bastard indigo, *amorpha fruticosa*, must not be expected to stand too sturdily above the high enclosure of a garden, for its habit is somewhat spreading, and it is best used, perhaps, where the massed planting about the garden meets the ground beyond; or where the garden hedge is low, or the ground level outside is higher than that within. An unusually erect specimen of this shrub will grow to 15' or 20', but 5' or 6' might safely be called the average. Its foliage resembles that of the locust; quite as decorative a form in the mass as any that exists. The flower spikes are a lovely violet color, blooming in late Spring and early Summer, and are followed by interesting seed-pods.



Healy

If it is possible to plant it in a slightly moist situation it will respond gratefully.

Flame-colored azalea, as *azalea lutea* is called in the catalogs, is really *rhododendron calendulaceum*. It is suggested here for the outside frame of the garden, and for similar shrubby masses, because of the exciting splash it makes in May and June with the burning dazzle of its red-orange-yellow blossoms. Shrubby masses are apt to become a little too sedate. They need such a colorful insurgent among them as this. Under favorable conditions it will attain a height of 10'. It is well to count on from 4' to maybe 7'. It is effective to have balancing groups of this flaming plant on either side of the garden. Keep it away from the pinkish purple of the Judas tree, for it will be bound to clash.

(Continued on page 148)

A VILLA OF THE ITALIAN RENAISSANCE

The Villa Caprarola and Its Tradition Afford a Remarkable Study of Italian Gardening in a Classical Era

RALPH E. GRISWOLD

IT IS rare that one finds a garden unit as well adapted to its special purpose and situation as the Upper Garden, of the Farnese Villa at Caprarola. Complete in itself, it is the most unique part of the great Villa Caprarola, the stupendous dream of an ambitious Cardinal and one of the finest villas of the Italian Renaissance.

The Cardinal, Alessandro Farnese, because of his delicate health was advised by the doctors of his uncle, Pope Paul

the Third, to rest for a time in the quiet and invigorating air of Monte Cimino where "there were the best hygienic conditions, the purest of air, a picturesque horizon, a delicious freshness and enchanting silence, broken only by the songs of birds and the chatter of industrious peasants. Such a fortunate retreat was found in the town of Caprarola, about seventy-five kilometers north of Rome. Here for a time the Cardinal established himself in the Palazzetto della Cancelleria. But since these accommodations could not satisfy, even for a brief time, the taste of so magnificent a Cardinal, the great architect Vignola and the famous brothers Zuccari were called to collaborate in the creation of a palace, which, to use the Cardinal's own words, "Should stupefy the world".

It was a time when colossal villas were being erected on the Alban and Sabine

slopes and in the close vicinity of Rome. There was no question of what style or period to adopt; it remained for the architect to apply what he could from the classic tradition to his immediate problem.

Thus the precarious health of a great Cardinal gave occasion for the creation of one of the greatest masterpieces of palatial architecture and gardening. The palace was begun in 1547 and in 1559 it was complete.

After the death of Alessandro, in 1592,

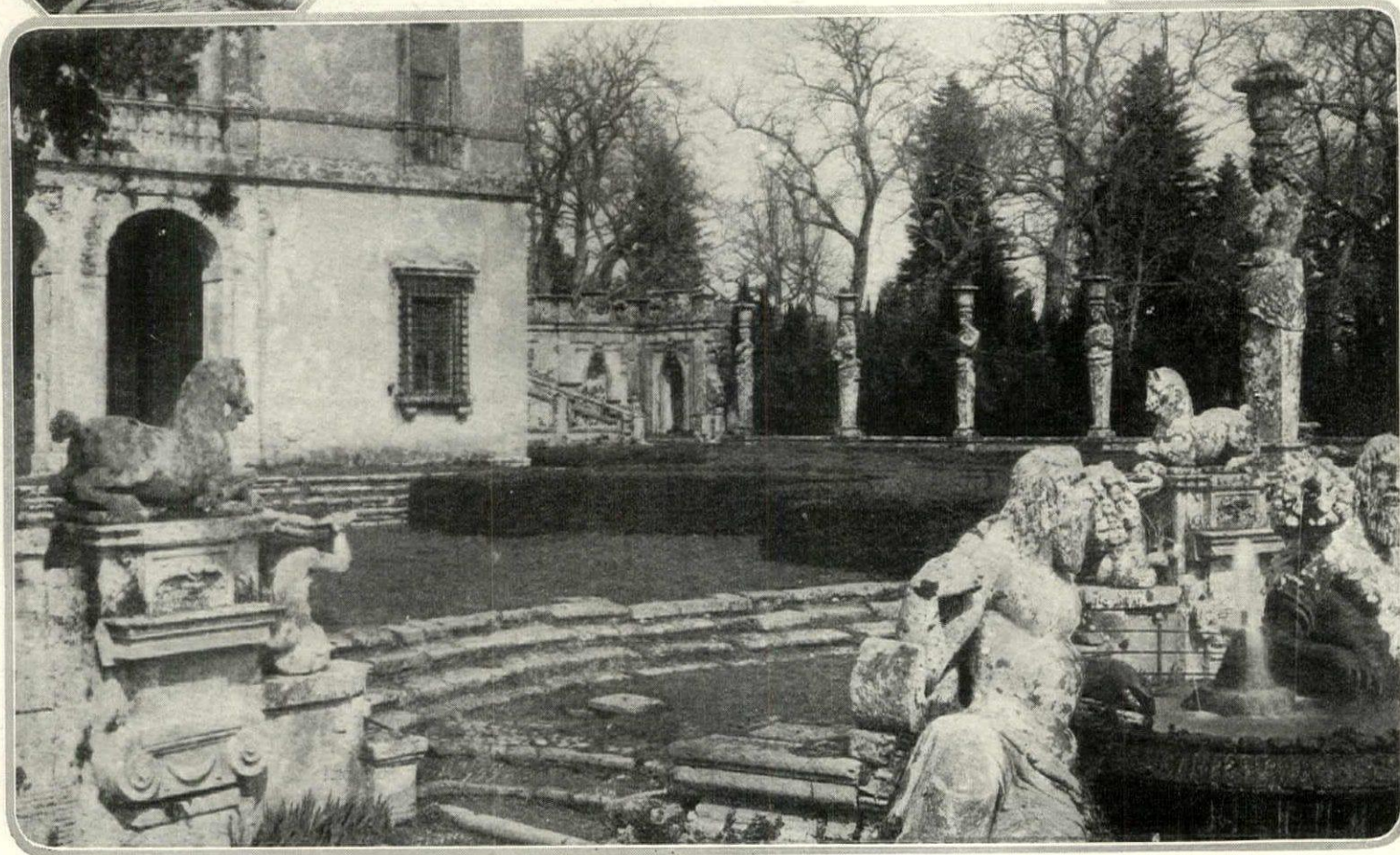


Grotesque water gods guard the fountain and basin in front of the Casino. The huge rose is 12' in height

At regular intervals along the wall are colossal caryatides, 16' high, of rough, vigorous sculpturing

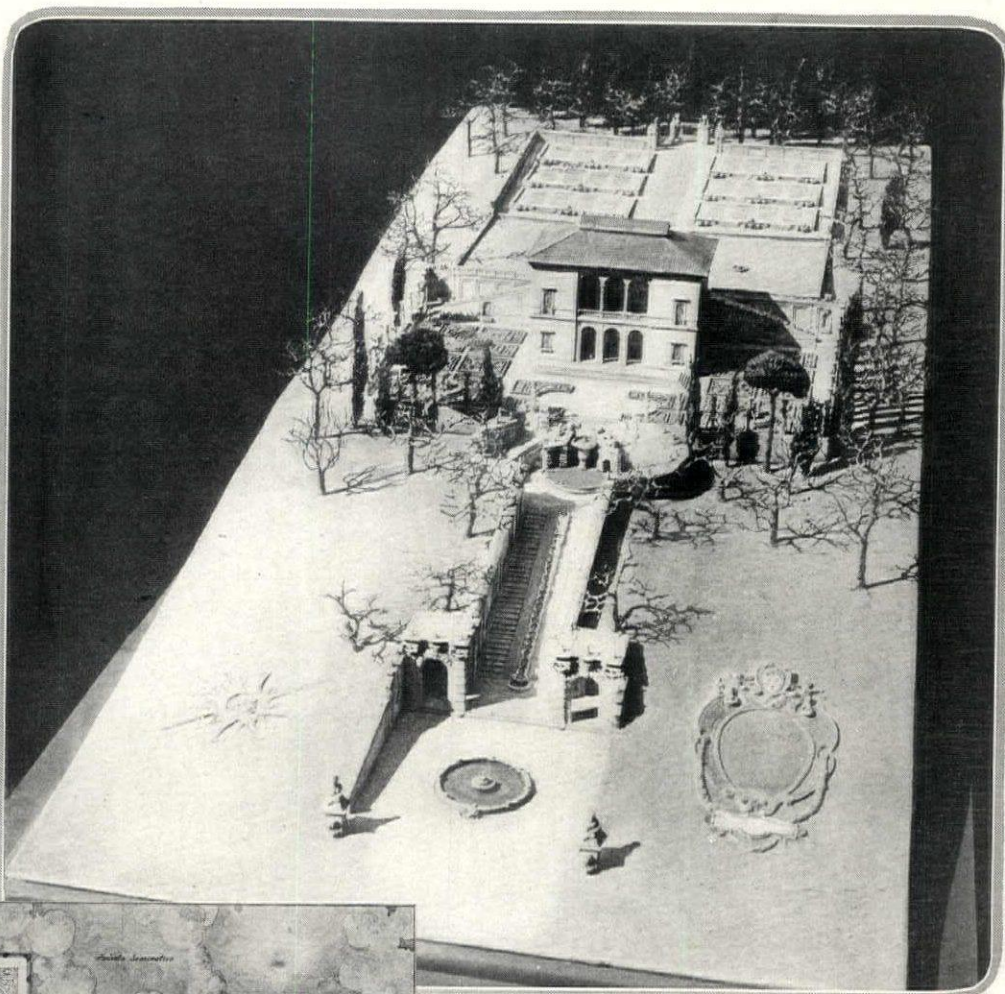


Below is a glimpse of the terrace in front of the Casino. Box parterres, turf walls and gently ascending steps make the approach to this remarkable garden house

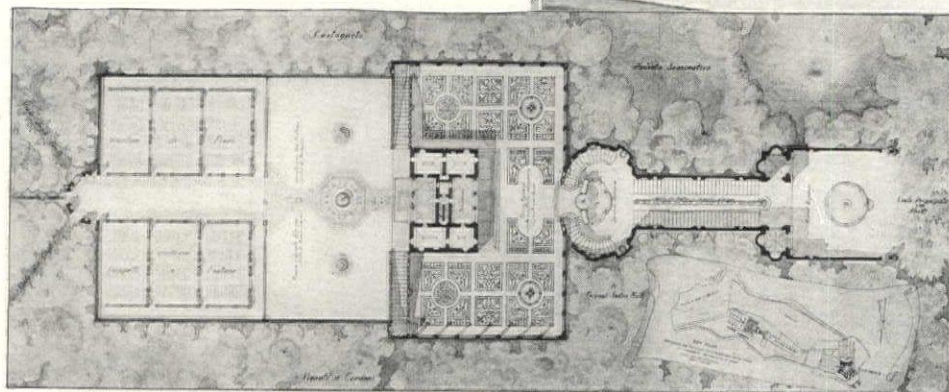


the Villa was left to Cardinal Odoardo Farnese, a very serene and accomplished man, the last of the Farneses to be worthy of the distinction given that great name by his predecessors. Shortly after Odoardo came into possession, he built what is known as the Casino and Upper Garden, an entirely separate garden unit undoubtedly designed by Vignola but not constructed until many years after his death. The exact date of this construction is uncertain but without doubt it was completed about seventy years after the construction of the main palace. The retiring character of Odoardo may give some clue to the function of this Casino and its gardens which was termed by a contemporary writer a "Villa Deliziosa". It is more than probable that the Cardinal, tired of the confusion and strenuous life of the main palace retired here to be surrounded only by his most beautiful gardens and closest friends. The reason for building this additional garden with no architectural connection with the main palace and gardens, is an unsolved problem and one of little importance to

(Continued on page 92)



Mr. Griswold's model of the Villa Caprarola is considered the finest garden model ever made. He is a fellow of the American Academy in Rome



The map of the garden by Mr. Griswold shows the location of the Casino, its approach and surroundings

The Upper Garden and Casino are reached by a long ramp down the center of which runs a cascade



THE BIRD-*and*-FLOWER PAINTINGS *of* CHINA

GARDNER TEALL

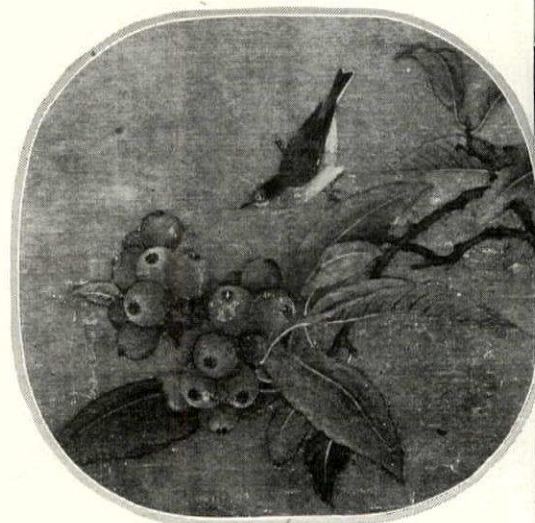


"The Blackbird", by Wu Ping, an artist of the Sung Dynasty, 960—1277 A. D.

THE great love of Nature inherent in the Chinese soul made itself manifest in the painting and poetry of China. It lent to its art certain defined characteristics, which, in pictorial expression were, at an early day, applied in the following groups into which painting and drawing were divided: Landscape; Man and Objects; Flowers and Birds; Plants and Insects.

The third group is one with which we are all more or less familiar. The Chinese term for these Bird-and-Flower paintings is *Hua niao* or *Hau hui*, just as the Japanese for works of this genre is *Kwa cho*.

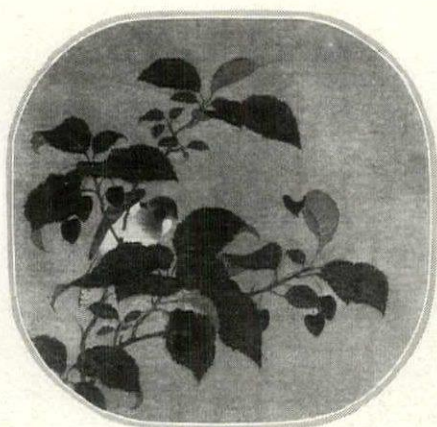
While the Western world has, for many years, utilized the Chinese Bird-and-Flower paintings in decoration and has adopted and adapted many of the *Hua niao* motifs in design, a fuller enjoyment of this Oriental art group is only possible through a more intimate knowledge of the subject than is conveyed to us by the mere external appeal of the aesthetic qualities in these Bird-and-Flower paintings of China. Birds and flowers evoke in the Chinese mind and heart a romantic sentiment with which, in European art, only feminine beauty is in any way to be put in comparison.



Companion to the one opposite is this bird-and-flower painting of Wu Ping's

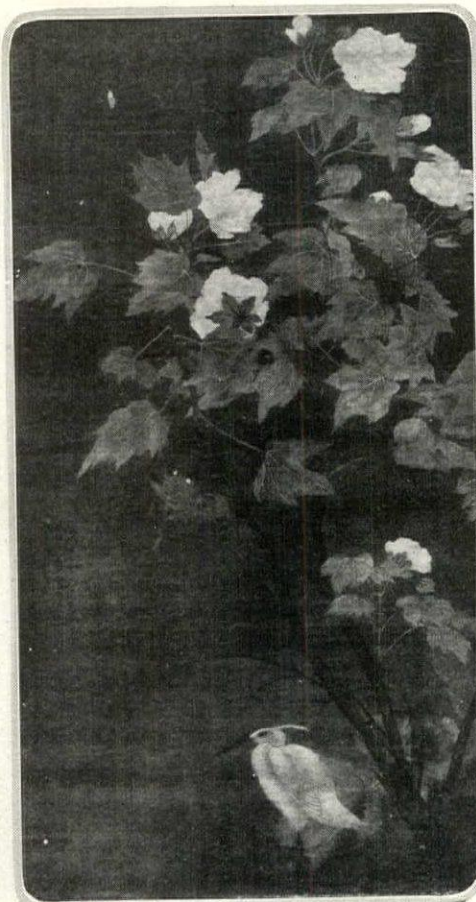
Of the Chinese Bird-and-Flower paintings Petrucci has the following to say: "The Chinese gave rein to their fancy for painting the bird in conjunction with the plant life associated with its home and habits. The bird is treated with a full understanding of its life, and flowers are studied with such a comprehension of the essential structure that a botanist can readily detect the characteristics typical of species, despite the simplifications which an artist always imposes on the complexity of forms. This general class is subdivided. The epidendrum, the iris, the orchid and

(Continued on page 130)



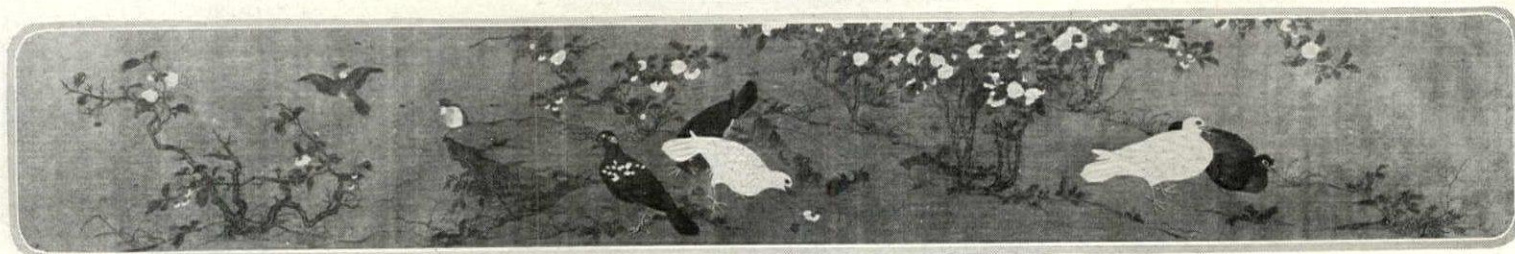
A bird-and-flower painting by an unknown member of the Imperial Academy, dating from 960—1368 A. D.

"Hibiscus and Egret", by Chao Meng Chao Tyze Ku, one of the bird-and-flower painters of the Sung period



A Chinese bird-and-flower painting by a member of the Imperial Academy of the Sung or Yuan Dynasty

"Quails" by Ai Hsüan of the Sung Dynasty, painted about 1070 A. D. Ai Hsüan specialized in painting quails



A LITTLE PORTFOLIO OF GOOD INTERIORS



M. E. Hewitt

The photographs in the Portfolio this month are of the home of Mrs. Theodore A. Havemeyer at Brookville, Long Island. The picture above shows a balanced arrangement of furniture at the fireplace end of a morning room. Although the walls are neutral in tone, bright chintz hangings and Chinese rugs provide plenty of color. Schmitt Bros., decorators



Where there is enough space a hall may be furnished as a small reception room with a comfortable sofa, small tables, chairs and an occasional lamp. In this case plain, neutral toned walls make an excellent background for delicate 18th Century English furniture, colorful flowered chintz and taffeta and a decorative architectural painting that is very well placed



The dining room is entirely paneled in old pine. The chairs are Queen Anne with seats done in old needle-point and a leather screen of the same period has a design of garden flowers

Charming old furniture finds a fortunate setting in this gay little living room with its sand colored walls, profusion of flowers and long hangings of flowered chintz. Schmitt Bros., decorators



At night Waterford candelabra on either side of the fireplace throw soft light on the mellow pine walls and blend the blues and browns of the chintz with the rug's yellows and blues



An interesting combination is side walls painted blue-green with bookcases and paneling of old pine at either end of the library. The hangings are of prune colored chintz and the rug Chinese

A SHADED CITY GARDEN IN LONDON

The Town Garden of Lady Sackville Is a Beautiful Example of What Can Be Done in a Restricted Area

MINGA POPE DURYEA

THE approach to any city garden from the house should be made by degrees. A porch, a terrace or a garden room should mark the transition. In order to do this, this terrace or garden room should carry in its decorations some suggestion of the garden that lies immediately without.

This phase of city gardening is beautifully illustrated by the house and garden of Lady Sackville in London. It is the old Ebury mansion, built toward the end of the 17th Century and its Georgian lines have long made it known architecturally. Carved and paneled rooms of the period are found here and the house is filled with the rarest of *objets d'art*. But with the garden room and the garden we alone are concerned. As will be seen by the illustrations on the opposite page, the floral motif is found con-

stantly in the decoration—in the surround of the fireplace, in the overmantel panel and in the priceless Aubusson tapestry screens, which originally came from Bagatelle. These suggestions help make the passage from the house to the garden less abrupt.

One of the windows, which looks out on a rather uninteresting glimpse, has been filled with shelves that hold some of Lady Sackville's collection of colored glass. This, of course, is the ideal way in which to show glass and, incidentally, softens a view that would otherwise be not so pleasant.

From the garden room one passes out to a flagged terrace—and the garden lies ahead. Although the garden really occupies only a small area, a greater sense of space is given it because of the way an adjoining property cuts into it. Thus the garden

might be said to consist of three parts—the terrace immediately by the house, the long walk and the sheltered terminal with its garden furniture. All the walks are paved with stone.

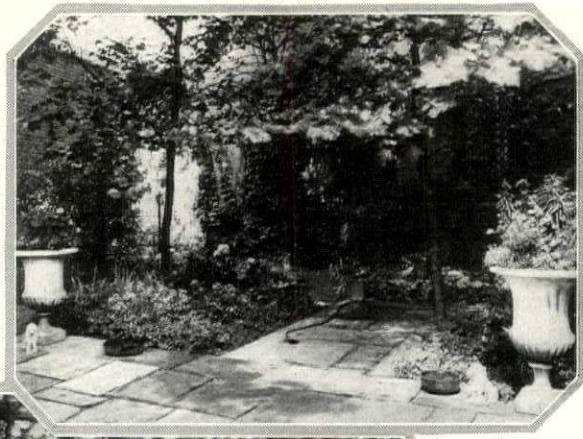
The transition from the house to the garden is actually made through a latticed terrace. This lattice design is carried along one side of the wall, surmounting a fence. Trees are planted at regular intervals down the long walls, and these, together with the fence and adjoining building, make the garden quite a shady spot. While the major part of the planting is permanent, of course, much color is found in potted plants set in stone jars along the long walls and in vases and urns on the terrace. Geraniums are principally used for this purpose.

Because of its shady aspect the garden can only be planted to shade-loving mate-



At the end of the garden under glass canopy is grouped iron furniture and Dresden lemon trees

The garden view directly facing the group opposite is this glimpse of cross paths and flower-filled urns



Duryea

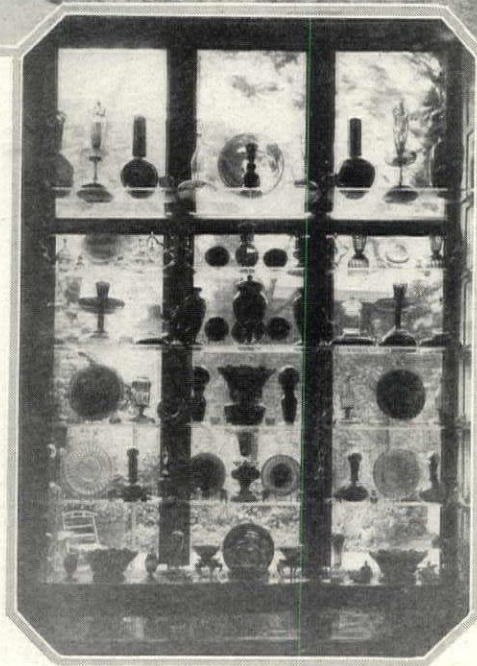


The long walk is lined with trees. At regular intervals stand stone jars with colorful geraniums. Flower borders fill up the side spaces



H. V. Duryea

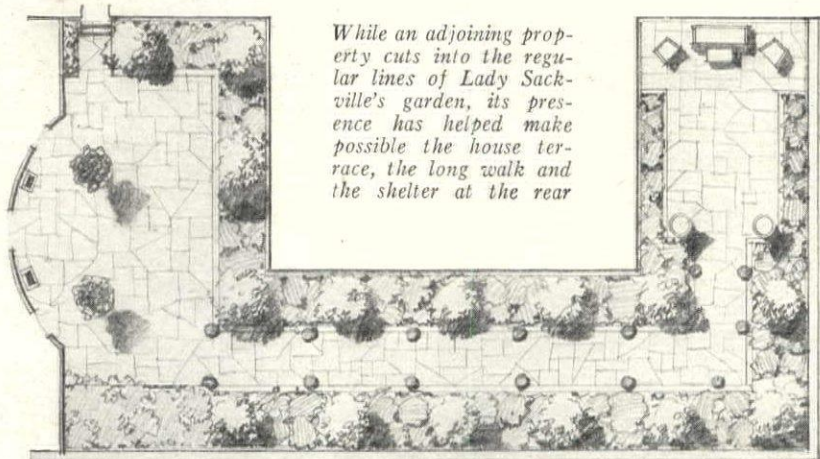
Directly off the garden terrace is this room, which has a floral motif in its decoration, making a pleasant transition from house to garden



One of the windows looking out on an uninteresting view is filled with glass shelves on which has been placed a collection of colored glass

rial. The walls are covered with wisteria, woodbine and ivy. In the beds are found rhododendrons, laurel, hawthorn and castor oil plant, the last an ideal annual for shaded city gardens not only because it will thrive but because of its generous foliage. In addition to these are found, scattered in the beds, yellow day lilies, lemon yellow, deep yellow and flame colored snapdragons, blue hydrangeas (another ideal city garden plant) annual larkspur, delphinium, dwarf fuchsia, blue violas, phlox, zinnias, *lilium speciosum*, and *calceolaria*.

The shelter at the end of the long walk is one of the most interesting features of the garden. Here a space against the rear wall is covered with a section of glass roofing, making it habitable even in rainy weather. Under this glass canopy has been placed a grouping of delightful garden furniture. On either side of the iron bench stands a Dresden china lemon tree in a decorated pot. They are



While an adjoining property cuts into the regular lines of Lady Sackville's garden, its presence has helped make possible the house terrace, the long walk and the shelter at the rear

beautiful examples, the china leaves, blossoms and fruits being so perfectly executed that at first glance they seem real. On the wall above hangs an old picture of a cottage bowered in flowers; this also is of china. The lamp is Lowestoft and hangs from a wrought iron bracket. Here is an ideal corner for tea or for a quiet moment. We can recommend the glass canopy as a feature to copy in American city gardens.

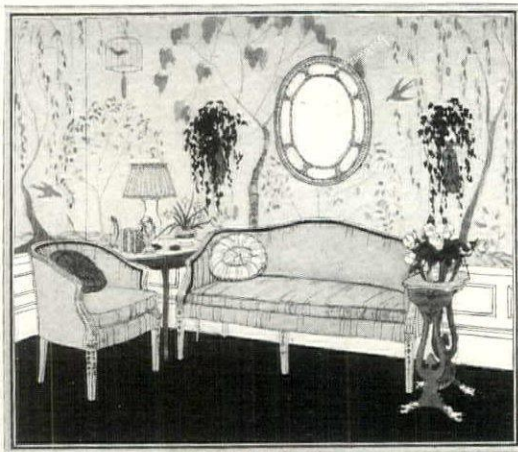
This entire garden is worth studying for the simplicity of its treatment and the great amount of interest that has been created in a small space.

While most of our city gardens are square or oblong areas, some of us may be so fortunate as to own an irregular lot. On such, as in this garden, a sense of vista can be given by creating a straight, unbroken walk; diversity of interest will be found in making such a little shelter as explained above. As for the flowers that will grow, you will have to experiment.



Harting

Even the simplest of morning rooms should have a fireplace with the furniture grouped in the livable manner of the room above. The small chintz covered sofa and hooked rug contrast pleasingly with the plain curtains, solid color carpet and overstuffed chair



The walls of the little morning room shown in the sketch at the left are done in a flowered paper, the design copied from an old Chinese Chippendale pattern. Particularly effective against this cool, green background are the wall urns filled with trailing ivy

For color contrast it is sometimes advisable to introduce a painted piece of furniture into a room. The graceful secretary below is soft greenish-blue, affording a charming contrast to the yellow-pink walls. The old chairs and tables in the room are made of walnut

The photograph below shows the bay window end of a morning room, a delightful spot to breakfast in. The curtains are deep greenish blue, the walls yellow-pink. Flowered chintz provides other color notes. Diane Tate and Marian Hall, Inc., Decorators



BRINGING THE COUNTRY TO TOWN

*Make One Interior In The City House Or Apartment Delightfully
Informal And Gay And Let It Be Called The Morning Room*

DIANE TATE AND MARIAN HALL

THE Morning Room! Surely a room never had a more delightful name. At once you think of an informal, intimate sort of room in a country house, one with the sun pouring in through wide windows, many bowls of flowers, pots of growing plants, a low comfortable sofa, usually covered in gay chintz, convenient little tables, many, many books, and over all an air of intimacy and charm.

Effective as your living room may be, it probably has to be shared with a good many people and there is never a great feeling of privacy in it. For this reason, when you are planning your house or doing it over, whether it be in the city or country, pick out a room that is not very large and one that will have the morning sun streaming in, and make it into a delightful morning room. There is no other room that has such a pleasant combination of uses. First of all, you start your day by breakfasting in it, which is a pleasant middle course between breakfasting in bed and breakfasting in the dining room. It is a quiet place to write or read without being interrupted and a delightful place to have tea when you are tired and want to be alone.

We have stolen the idea of the morning room from the English who know so well how to live comfortably and easily. Practically every English house contains a room of this kind, an interior quite different in feeling from the dignified living room; one in which there is a certain informality and evidence of the owners tastes and interests, a room with a lightness of touch in its decoration, a sense of gaiety.

The room we have photographed on the opposite page is a good illustration of this for it is decidedly English in feeling in spite of a few Italian chairs, the American hook rug and needlework cushion. A morning room to be really successful must be intimate, very formal and rather gay. For this reason when you go about furnishing it, you can mix the nationalities of your things if you wish, especially if they were made about the same time and have the

same sort of feeling.

This room is in a New York apartment on a corner. It is fortunate in having a bay window, for the sun streams in all day. Because of this it makes a delightful spot to breakfast in, so we used a quaint old-fashioned table with a barrel chair, low and chintz covered, next to it where one can sit comfortably and read one's morning paper and mail.

with a neutral color background and a design of flowers in yellow, salmon pink, blue and mauve. The hook rug tones in with all of this as it has flowers of the same colors a little different in tone.

Lamps and shades are such an important part of a room that they should be studied quite as carefully as the hangings or upholstery. Because there was so much color in this room we thought cool, white alabaster lamps would be effective and in charming contrast to the colorful walls and curtains. The tone chosen for the lamp shades was salmon pink. Those on a pair of lamps on the Queen Anne tables were made of gauze, trimmed with tiny ruffles. A larger shade on the lamp on the book table is of pleated linen the same tone. The effect of a room is more restful and harmonious if the lights are all one color.

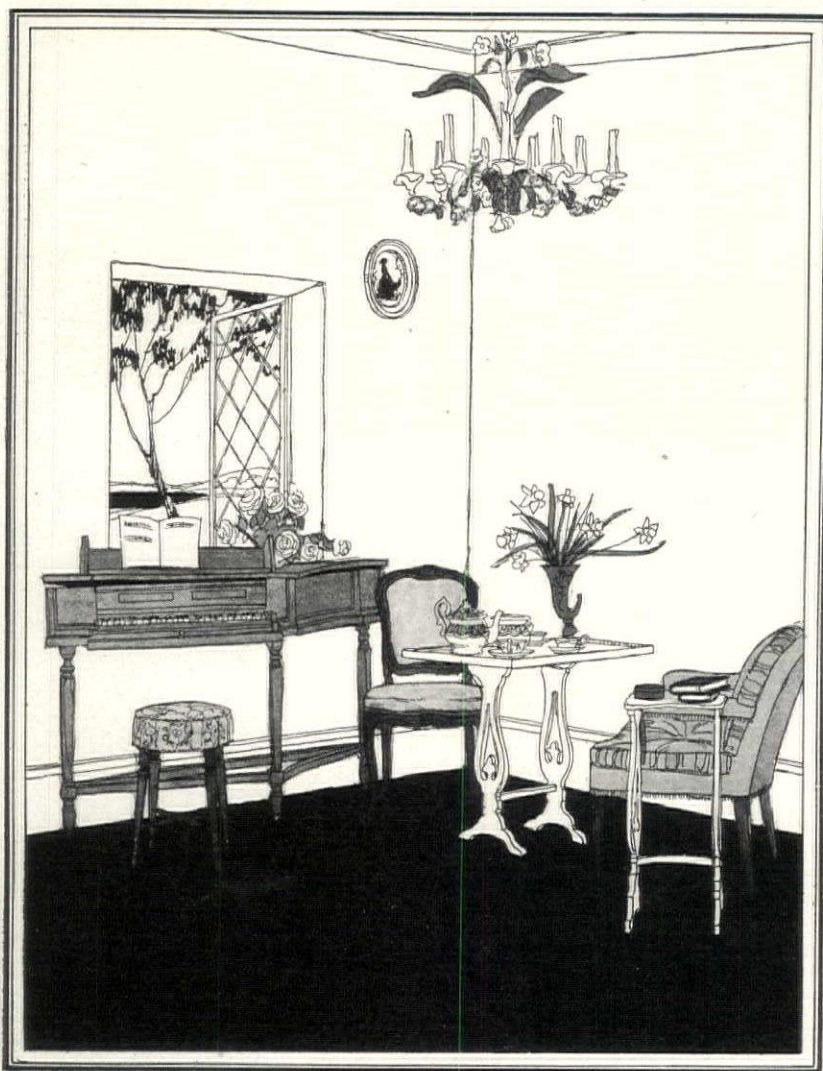
Practically all the furniture in this room is walnut. A charming contrasting note of color is provided by the graceful secretary which is painted a soft greenish blue. One piece of furniture of this kind rather keys up a room, gives it snap and individuality and is especially effective in an informal type of interior.

The quaint barrel chair provides another interesting note for it is covered in an old chintz, different in design from the one used on the sofa. The background is rather a dead, plum color with the pattern in lovely soft and faded tones that in no way conflict with the design of the other chintz.

This bit of old stuff helps enormously in giving the room distinction and is especially effective against the soft, gun metal colored carpet.

Needless to say you must have a fire-place if possible in a morning room for a blazing fire adds immeasurably to the intimacy of the tea hour and it is difficult to make any room really cheerful and comfortable without one. Finally, flowers, almost more than anything else, go far towards softening and giving a room of this kind charm. To us they seem almost indispensable.

(Continued on page 96)



The walls of the little Victorian room above are painted cool green. The chairs are in green brocade and the amusing chandelier is of green and white Bristol glass

The walls here are a yellow pink, the color the villagers in Sussex paint the outside of their houses. It makes a flattering background for any wood and harmonizes with almost any color you could choose for curtains and furniture. The curtains in this room are peculiarly effective and a delightful contrast to the softly colored walls. They are a deep greenish-blue, trimmed with box pleating one and one-half inches wide, the pleating faced with pink the color of the walls. The overstuffed chair by the fire-place is covered in the same material as the curtains and to introduce a contrasting fabric, the sofa was done in a glazed chintz



A house for a moorland site, where the lines of the landscape are horizontal, and trees are not a factor

RELATING THE HOUSE TO ITS SITE

True Relationship Comes from an Appreciation of the Importance of the Profile of the House

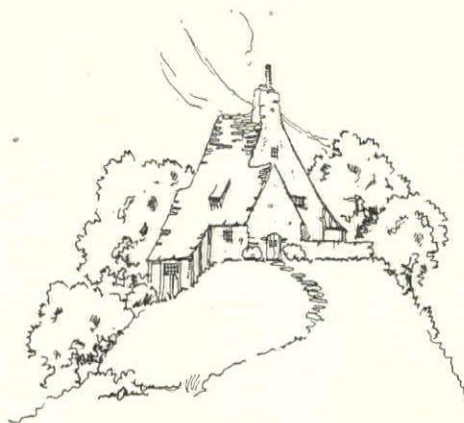
MATLACK PRICE

HAPPY relationships of house and site do not come ready-made. They are the result of someone's careful thought and study—of the owner's or the architect's, or of both in an intelligent meeting of minds. Too many builders start the house impatiently, or without due consideration of the site until it is too late. Not a few seek to impose on an unwilling site a preconceived choice of a certain kind of house, quite unsuitable, and wonder, afterward, what is the matter.

Most people are definitely conscious of the effect of a house that is well-related to its site, although the actual relationship eludes them and leaves them only with the feeling that there must be some inherent architectural magic in the house itself.

If all building sites were alike, and all possible houses were alike, it would be simple enough to evolve a formula, and a formula, unfortunately, is what a great many

people seem to want. It lulls worry over doing the wrong thing—if you have enough faith in the formula. Fortunately the matter is not so simple, because even a broad

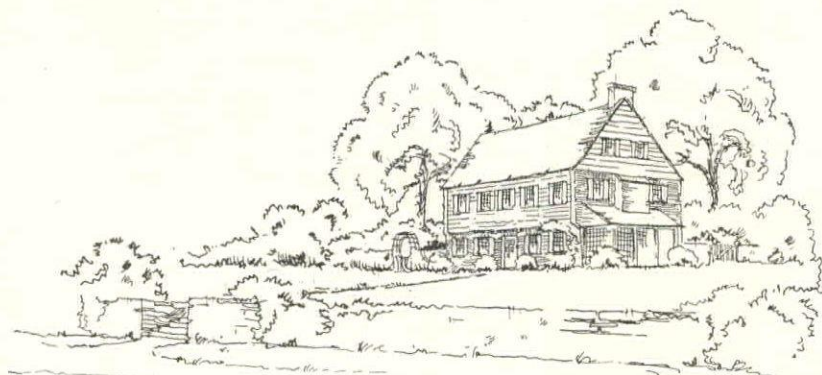


A thickly wooded hilltop site, which suggests a house that will rise above the trees and carry on the steep profile of the hill

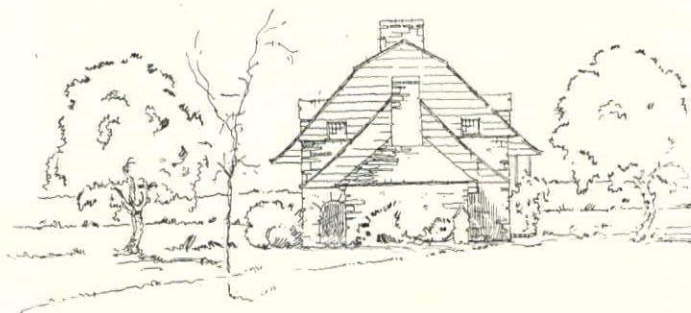
grouping of kinds of site would show a great variety, which, in combination with the also great variety of kinds of house, with all minor variations in both site and house taken into consideration, would result in a number of relationships to be computed only by higher mathematics. I believe they call it "permutations and combinations", and a good hand at it can show you several thousand combinations evolved from four or five elements.

Varied as are the possibilities in relationships of house and site, however, the matter is not impossibly complicated, and, like many other things, is fairly soluble by means of simple intelligence.

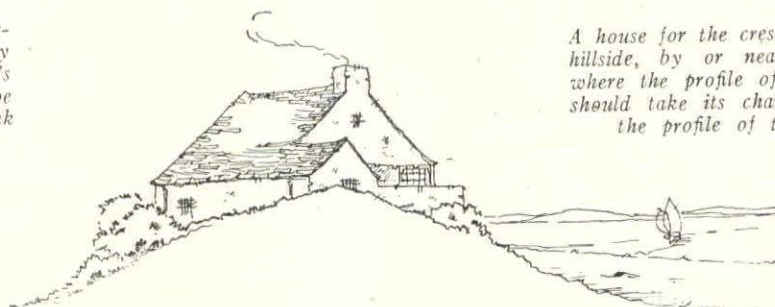
Eight sketch illustrations were made for this article, not with any brash thought of thus portraying all the possible building sites imaginable, but rather with the intention of isolating this small number for
(Continued on page 140)



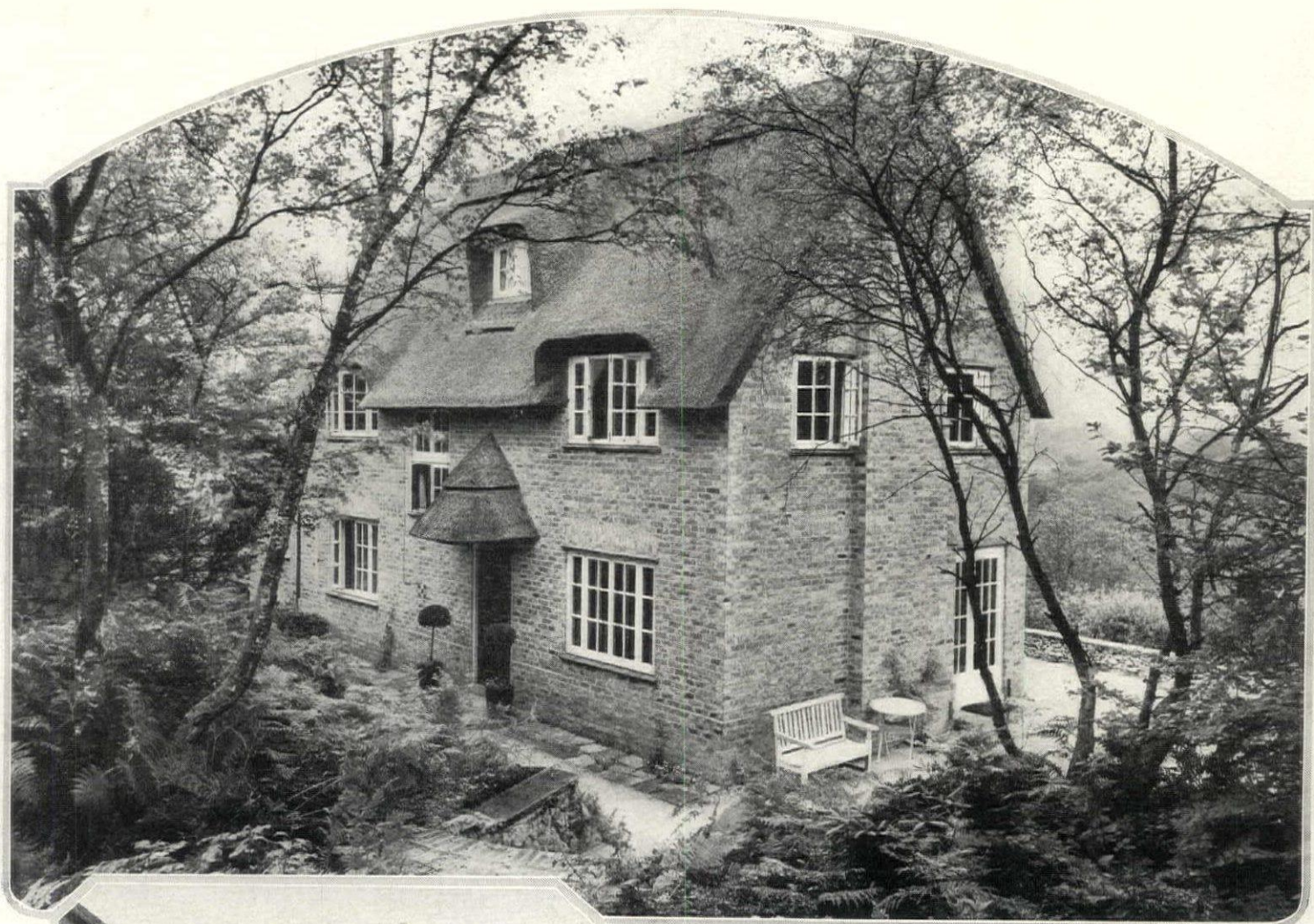
An old village site, where venerable elms and weathered gray stone walls direct the builder's choice to a house that will be "true to type". Sketches by Frank J. Forster, architect



A new house of old profile, designed to take its place agreeably in the orchard of an abandoned farm site



A house for the crest of a bare hillside, by or near the sea, where the profile of the house should take its character from the profile of the hill



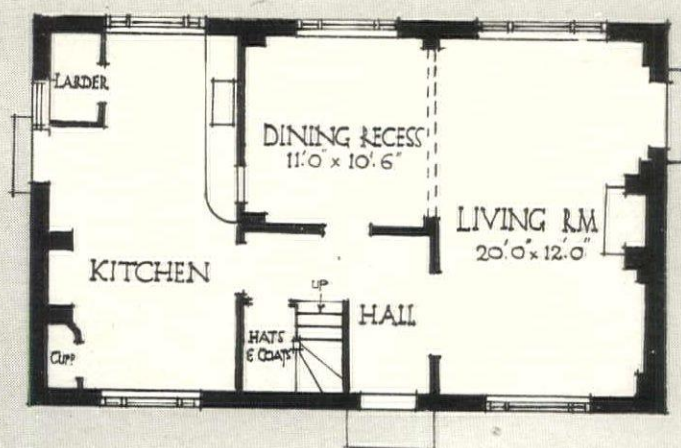
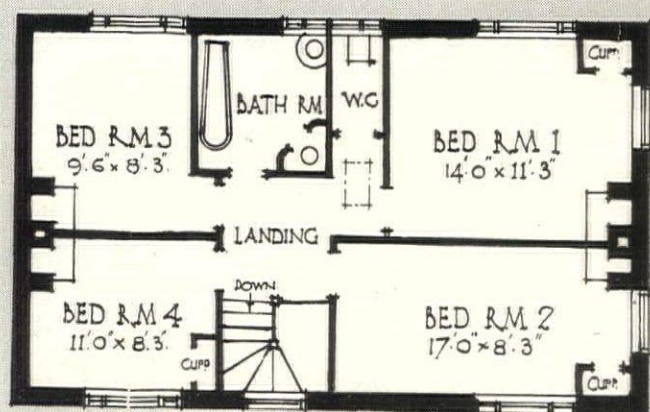
Variegated face brick gives a pleasant texture to the walls of this English cottage. Thatch makes a very picturesque roofing

A large kitchen is an English feature on the plans. A dining recess adds to the size of the living-room. Upstairs are four chambers



The entrance is accented by a thatched hood. In this country the thatch would be approximated in appearance with shingles, for the craft is rarely practiced. The shape of the dormers is peculiarly attractive

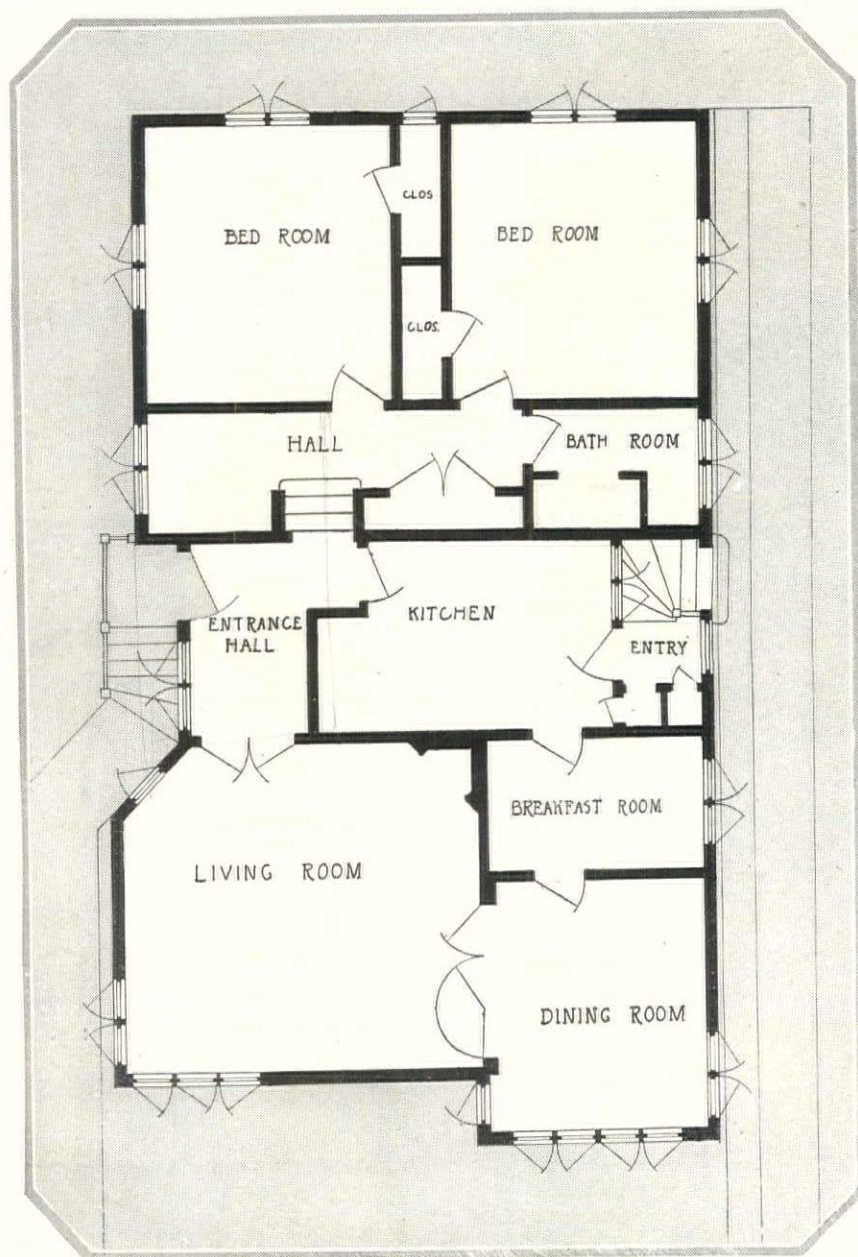
A GROUP of THREE HOUSES— in ENGLAND, in ILLINOIS AND CALIFORNIA





Moulin

This California hillside bungalow is very unlike the kind of thing we are used to seeing in motion pictures. Its exterior aspect, in fact, is somewhat reminiscent of a South African farmhouse, and there is a fine simplicity in the treatment. Henry H. Gutterson, architect



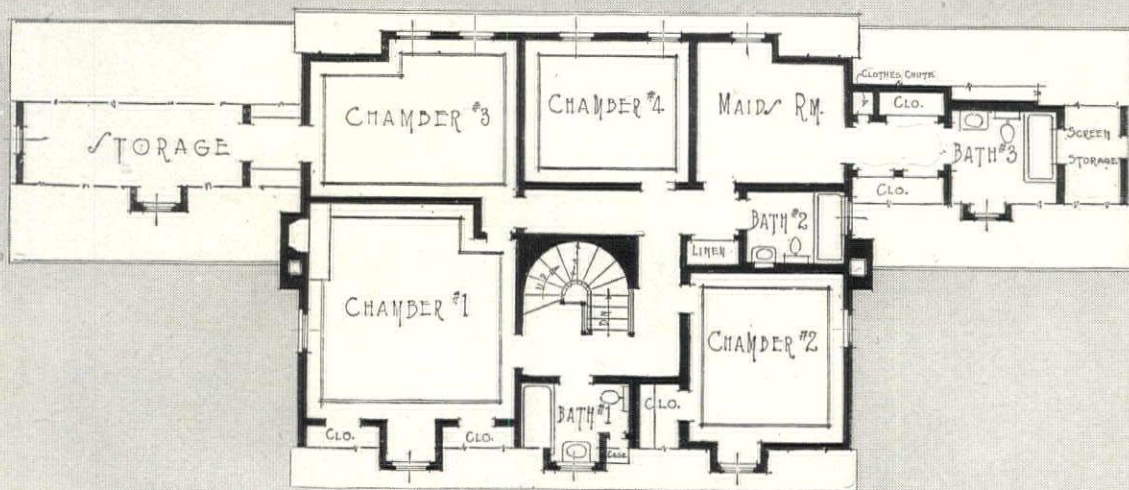
The plan of this bungalow is certainly not typical in its application to general use. Between the two levels of the entrance hall and hall a rail would have been more attractive than a partition, and the breakfast room seems to place the dining room quite a distance from the kitchen



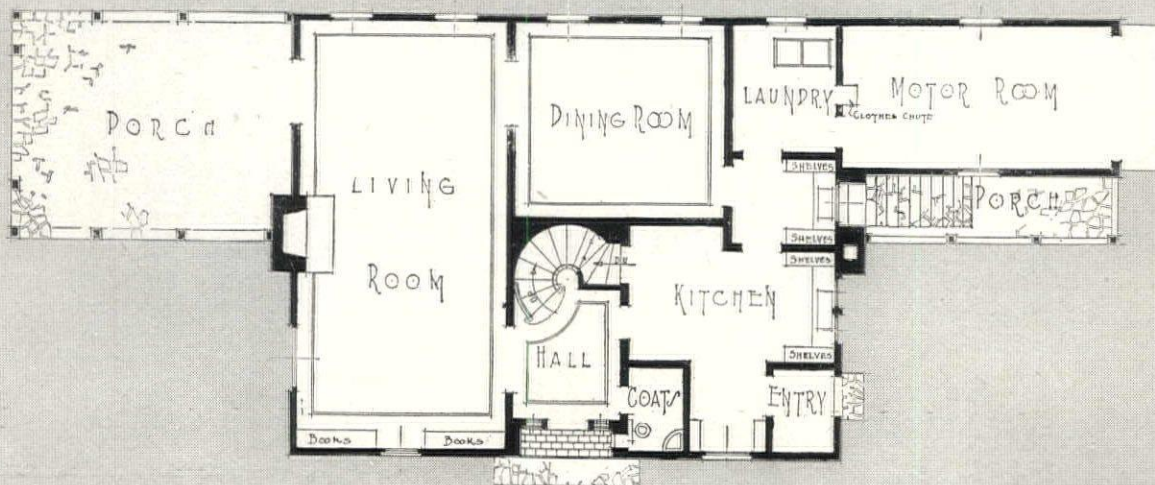
Hendershot

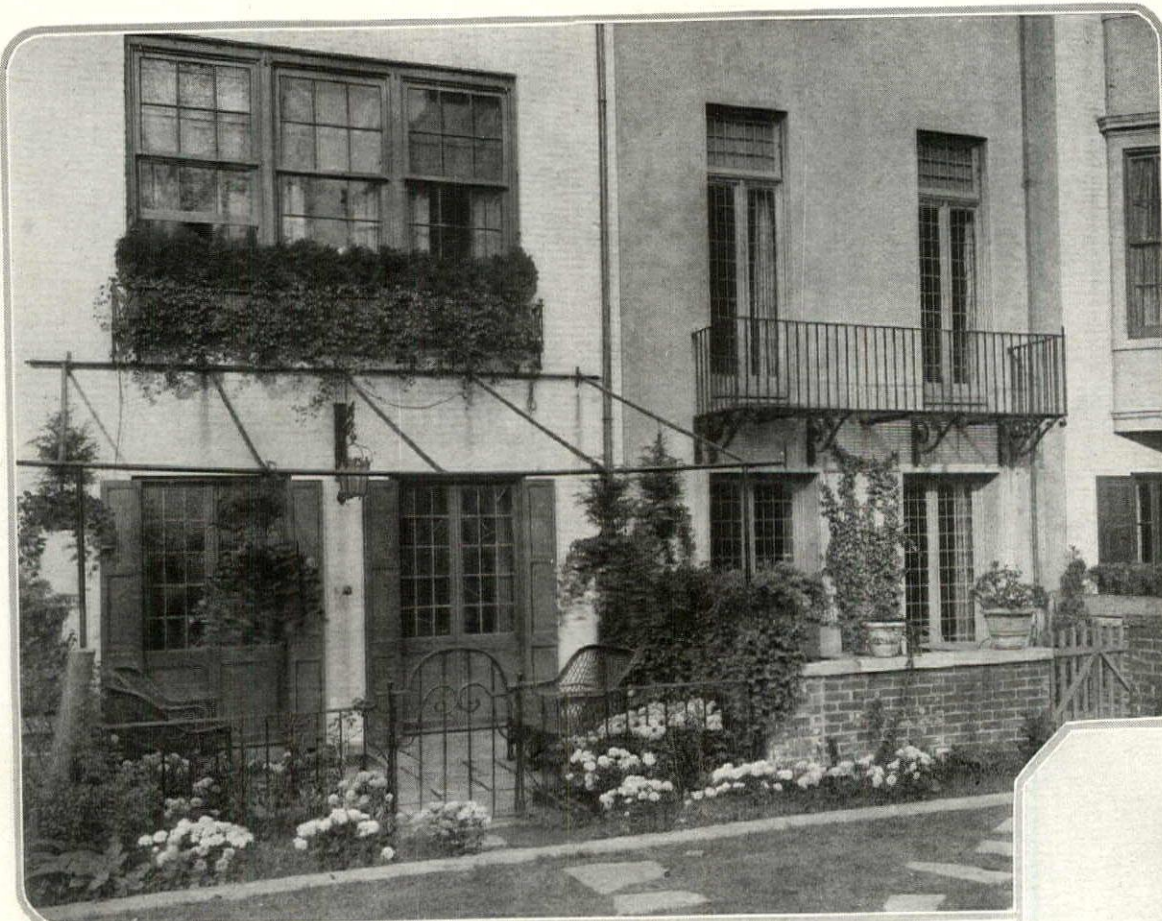
Far away from its New England habitat, the home of W. S. Carlisle, Indian Hill, Ill., has developed several interesting variations in its exterior and in its carefully studied plan. Two distinctly New England features are the absence of a front porch, and the carrying of the shingled siding down to the ground level. Two well-managed latter day departures from the old prototype are the "motor room", with its attractive overhang, supported by plain square posts, and the loggia porch at the left, which, in the photograph, is hidden by the corner of the house

The second floor plan shows an economical plan, in which every inch of available space has been utilized. Three baths and four bedrooms are provided, together with no small number of closets



An interesting feature of the first floor is the minimizing of the hall. The disposition of the kitchen, however, is unusual, and the "motor room" an admirable solution of the usual garage problem

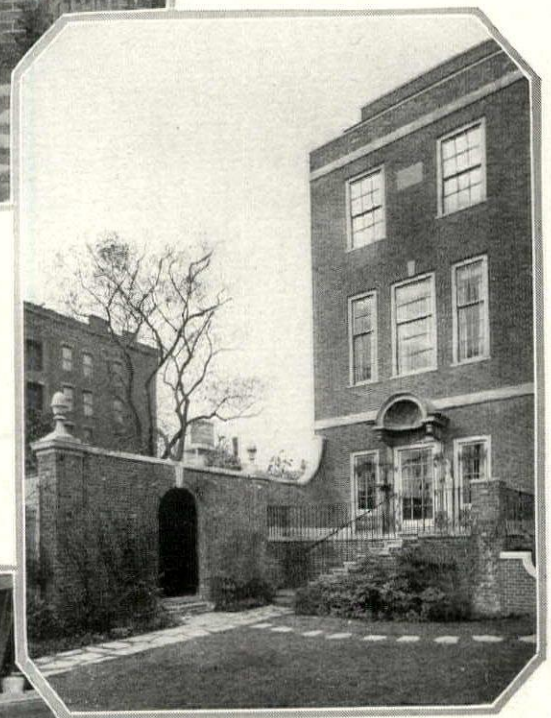




Duryea

In Sutton Place, New York City, each house has its own terrace separated from the others by a hedge or wall, and each is treated differently. The two houses shown here belong, on the left, to Miss Elizabeth Marbury and Miss Elsie de Wolfe, and, on the right side, to Miss Isabelle Camman

Mrs. Vanderbilt's house is at the end of the Sutton Place group. A high wall protects it from the street. As it is higher than the other properties, a balcony is hung along the wall, with steps leading down to the common garden. Mott B. Schmidt was architect of the development



Even where the backyards of only two or three city houses are thrown together quite an interesting community garden can be made. The two shown here are, on the left, part of the garden of Mrs. H. H. Duryea, and that on the left, Mrs. Lawrence Keene. The varying levels and use of pottery and sculpture give it interest

COMMUNITY GARDENS

By Pooling Garden Space a Group of Property Owners in Town Can Create a Large and Interesting Garden Area

MARY WHITTON

A COMMUNITY garden should be everything the name implies—a garden shared by many. It may be an entire block, where two rows of buildings and their backyards back up against one another, as in New York and in London, in fact, any city of the world. We quote these two cities as examples, because New York is furthering this movement and encouraging it, and London because it took up this question many years before America seemed to think it vitally important.

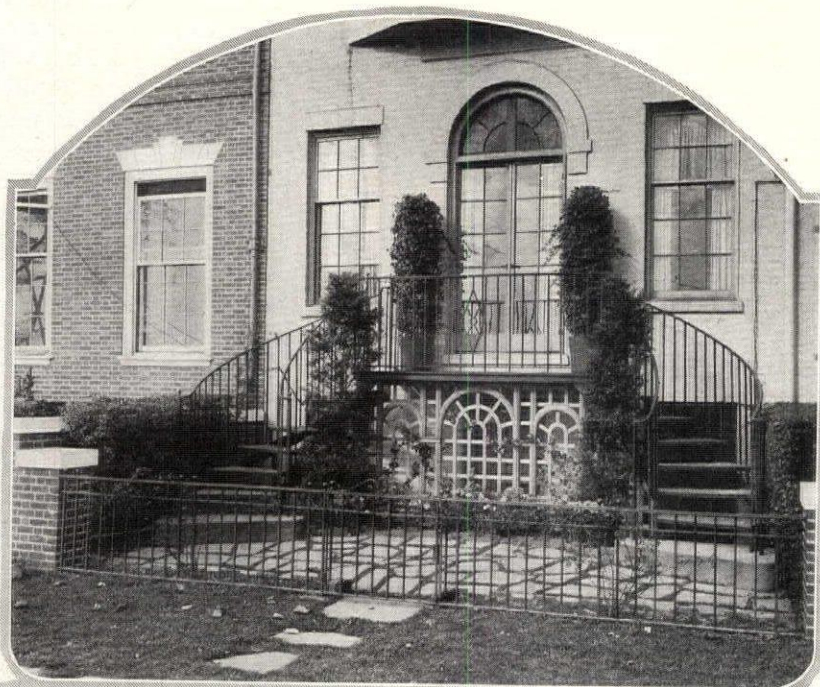
Such community block gardens are logical outgrowths of the remodeling of town houses. A syndicate or group of private owners gain possession of a city block, remodel the houses and pool their garden interests by removing all back fences, making an open area that can be enjoyed by all and in which the children can play in

safety far from the dangers of street traffic. Or it may be that two or three property owners buying and remodeling houses in a group may make a small community garden by the same process. Each of these developments brings up a number of problems in treatment and offers a fascinating variety of solutions.

The first problem is one of varying levels, where the land on one side of the block is

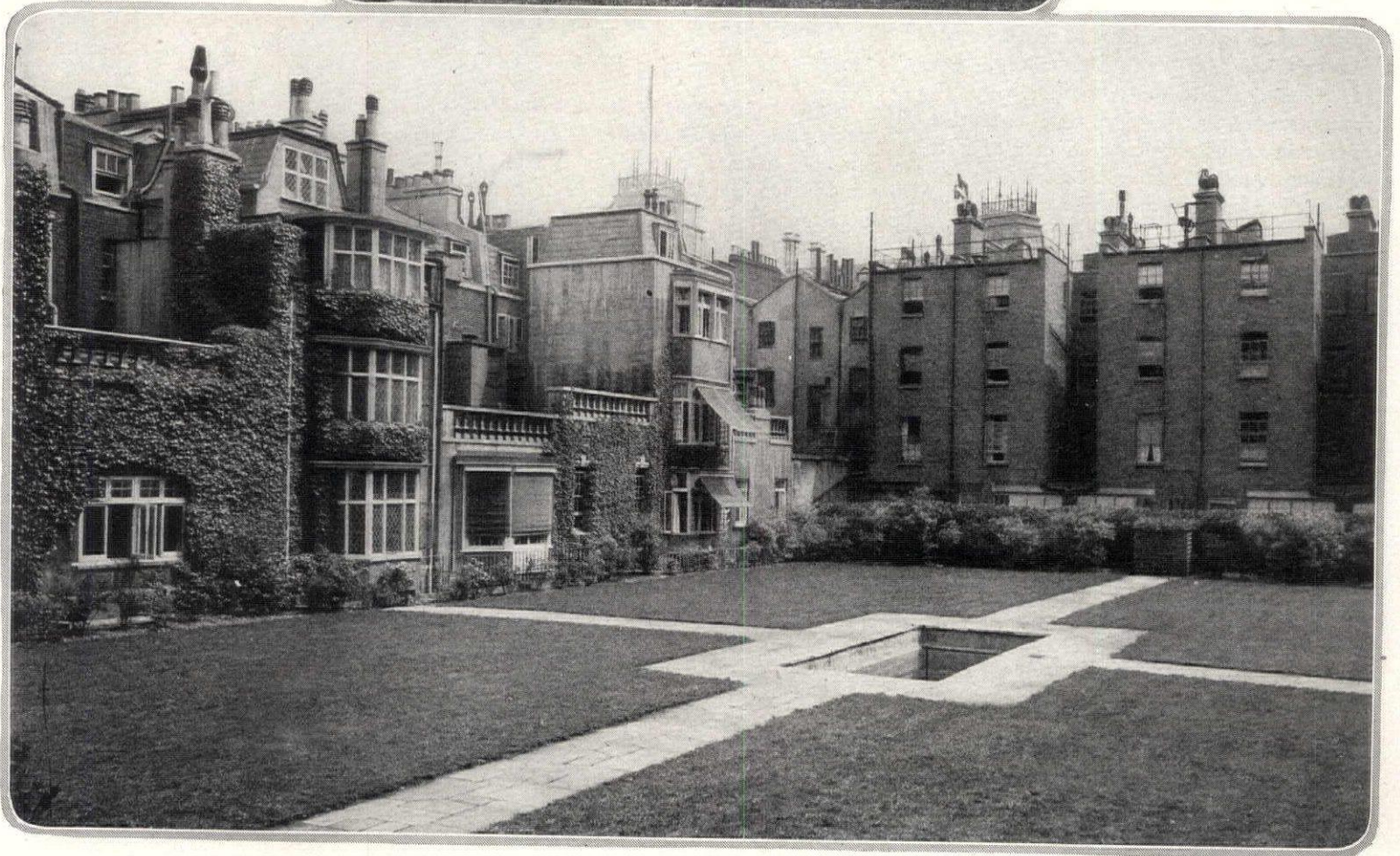
higher than that on the other. In the Turtle Bay development in New York City shown in *House & Garden*, January, 1921, there was quite a difference in levels, but this only aided the architects, Lawrence Bottomley and Clarence Dean, in the creation of an interesting and unusual Italian treatment. In fact, varying levels often lead to a more picturesque solution of the problem, than if the level was the same. It also affords the individual property owner an opportunity to make his entrance to the garden in a manner different from his neighbor.

Again, there is the irregular space to be considered, composed of only two or three gardens, embracing a community idea. In some instances only two lots or backyards are combined. An example of a double garden is found in those of Mrs. H. H. Duryea and
(Continued on page 92)



Quite a formal treatment of steps and balcony are given the rear of Mrs. Lorillard Camman's house, in Sutton Place. A low iron fence closes in the terrace

In Garing Court, London, the rear of the houses have been developed into garden rooms and garden roof terraces. Shrubbery is planted around the court



HOW TO PREPARE THE SOIL

*These Facts of Soil Working and Fertilizing Should
Be Understood By All Beginners in Gardening*

ELSA REHMANN

ALL gardeners know the value of soil preparation so well that they go about it rather intuitively and seem to know just how much to allow for it in the budgeting of garden-making. At least they can never be too enthusiastic upon the subject, and I suppose that once you have trenched a border with your own hands you are apt to become a devotee for life to sufficient soil preparation. It is a question, however, just how one can impress the novice who knows very little or nothing of gardening and garden-making so that he will be willing and eager to spend money and labor, too, upon that which seems stored away in the earth like a hidden treasure.

Someone has said that it is better to spend a dollar on a hole and ten cents on a plant for it, than to spend a dollar on the plant and only ten cents for the hole. Such exaggeration is valuable for its very emphasis and we cannot over-emphasize the value of soil preparation in the ultimate beauty of plants and in the final success of a garden. We all know, however, that such statements must be tempered by existing conditions. It is surprising, for instance, that the interesting growth on the sand dunes of Long Island, all the bayberry and scrub oak, beach plum and pitch pine, so characteristic of the location, is growing in a very few inches of soil—sometimes in not more than 2". It must be remembered, however, that in such extreme cases the plants are used to that condition actually from birth and that such growth is composed of certain plants especially adapted to such situations, and therefore characteristic of them. The problem of garden-making and gardening for more or less ornamental or decorative purposes for the surroundings of our houses is a different one and requires intensive soil preparation.

RULES and regulations cannot be followed blindly and generalizations are of little value without adapting them to existing conditions. A knowledge of the usual soil condition and character of your neighborhood is of first importance. Roughly, we can divide the eastern half of our country as follows:—The soil of the Central Valley—our mid-western states—is generally a heavy clay, rich in lime. That of our Appalachian range is part clay, part limestone. The Hudson valley and much of New England is a glacial till, a mixed soil of clay and sand and gravel which is good. Long Island, much of New Jersey, much of Virginia, sections of New England, such as Cape Cod and Nantucket, are a light sandy

soil which, with some extreme cases excepted, is excellent for gardening.

There are exceptions, of course, to such a very general statement of subdivisions but they are helpful in determining the usual character of the soil of your neighborhood.

The ideal soil is a rich sandy soil—what is sometimes called a black loam. The ideal soil is not merely a fertile one; it is one that drains easily and one that is friable. It is our problem, then, to neutralize our own existing conditions so that they will approach as near as possible this ideal.

THE matter of drainage is of first importance. Clay soils are too retentive of water, while in soils that are too sandy the water, and with it the soluble plant food, seeps away too easily. Clay soils are too sticky to work when wet, and crack and bake and become cloddy when dry. Do not mistake a sandy soil for clay, however, if it seems a bit sticky at times. You can tell a clay soil by rubbing a bit between your fingers. A clay soil is very smooth for it is made up of very fine particles while any bit of sand-papery feeling will show the presence of sand.

Clay soils are improved by drainage. On large areas tile drainage is necessary, in some garden borders a layer of broken stone at the bottom of the trench is enough. Sandy soils do not require this at all.

Clay soils are improved by deep cultivation. Spading is done in garden borders, ploughing in large areas. The ground should be worked over deep enough to break through the hardpan. And at this point it might be well to emphasize the necessity of using good tools for the proper soil preparation. Hardpan is a layer of hard infertile material just below the soil. This means usually digging to the depth of two feet. This working of the soil helps to drain the land and to make the soil open and friable. It is good to leave such ground rough until ready for planting and if it is possible to do the preparation in the fall for spring planting this additional time in which the action of the weather can do its work of breaking up the hard soil is of value. Sandy soils do not need and are not benefited by deep cultivation. The nutritious part of this soil is often not more than eight or twelve inches in depth and the subsoil, which is often a red loam without nourishment, can be left as it is because it drains well enough and, acting at the same time as a kind of barrier between the good soil above it and the sand below, prevents too much drainage. In too sandy

soils the water and the plant food tends to leach through and be lost. Plants find a foothold in this subsoil, but it is the fibrous roots which stay near the surface that are of real value.

Heavy clay soils can be loosened and lightened by mixing in humus or manure and sand. Occasionally clay soils require lime. Its need can be determined by a litmus test. Sandy soils are improved by humus or manure and lime. The lime reacts against any sourness in the soil, the humus gives it nourishment and body and good texture.

It is very difficult to pin down anyone to definite quantities, mainly because no two problems present identical conditions. My authority gives three and a half tons of lime and six to eight tons of manure to the acre as a minimum for sandy soils. For clay soils the proportion of manure should be increased to ten tons minimum. For soils of average fertility four tons of manure and a half ton of lime per acre ought to make a good garden. An ordinary one-and-a-quarter yard load of manure weighs about a ton when rotted. The same amount of fresh manure with any considerable quantity of straw in it weighs as little as a half a ton or even less.

SOIL food is a necessary ingredient in the preparation of soil for planting. All plant food, humus, manure, leaf fold, etc., are not only valuable as food but they make the soil mellow, porous, friable, easy to work. The more thoroughly mixed and pulverized it is the better. Commercial fertilizers have no such effect and are useful merely as foods and stimulants after the planting has been done. Their value in soil preparation is negligible.

The first landscape problem that I ever worked upon was a veritable eye-opener for the effects of soil economy upon plant starvation. It was, of course, an extreme case. The house was built upon land that was made of salt sand that had been pumped in over marshes to raise the level of the land above the high tide line. Soil was scarce and expensive to buy and to haul. Certain important sections of the place, especially around the front of the house and the garden path, were covered with a foot and a half of good soil. If you have any conception of the little soil there is in a load you may appreciate what it would have meant to cover the entire acre or two with soil of sufficient depth. In this foot and a half of good soil plants with

(Continued on page 106)

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In the first of the following lists the perennials and annuals are combined, and arranged according to height. The annuals are printed in bold face type. The directions refer to methods of planting and propagation, and to the most suitable soil and exposure. Fifty deciduous shrubs are considered on page 62.

ANNUALS AND PERENNIALS

COMMON NAME	BOTANICAL NAME	COLOR	Height	SEASON OF BLOOM	DIRECTIONS
Amethyst	<i>Browalia alata</i>	Blue, white	3"	June to Oct.	Sow seed in warm soil; thin to 6" apart
Rock Speedwell	<i>Veronica rupestris</i>	Purple	4"	May and June	By seed or division in good sandy soil; sun
Seven Sisters	<i>Portulaca, vars.</i>	Various	5"	May to Oct.	Rake seeds lightly into soil; thin to 4" apart
Chalk Plant	<i>Gypsophila repens</i>	Rose	5"	June and July	By seed, cutting, or division; dry; sunny
Dropwort	<i>Spiraea filipendula</i>	Yellow	6"	June	By seed in Spring, or division; dry; sunny
Sanvitalia	<i>Sanvitalia, vars.</i>	Yel. and purple	6"	June to Nov.	By seed in Spring, thin to 8" apart
English Daisy	<i>Bellis perennis</i>	Pink, white	6"	April to June	By seed in Spring, or by division in Sept.; moist; sunny
Tufted Pansy	<i>Viola cornuta</i>	Blue	6"	April to Nov.	By seed, cutting, or division; in sun or partial shade
Lobelia	<i>Lobelia erinus</i>	Blue	6"	June	Sow the fine seed indoors in March; plant outside 7" apart
Moss Verbena	<i>Verbena erinoides</i>	Blue, white	8"	July to Sept.	Sow seed indoors in March; outside later for continuous bloom
Dwarf Iris	<i>Iris pumila</i>	Various	8"	April and May	By divisions; spreads rapidly; good foliage; sun or partial shade
Chickweed	<i>Cerastium tomentosum</i>	White	8"	May and June	By cuttings or divisions; for dry, sunny places in foreground
Satin Flower	<i>Godetia grandiflora</i>	White, rose	8"	June to Oct.	Blooms better in poor and sandy soil than in rich loam
Sweet Alyssum	<i>Alyssum maritimum</i>	White	10"	May to Oct.	Sow seed month apart for continuous bloom; thin to 7" apart
Bugle	<i>Ajuga reptans</i>	Purplish	10"	May to June	By seed or division; not particular as to soil; sun or shade
White Rock-cress	<i>Arabis albidia</i>	White	10"	April and May	By seed, cuttings, or divisions; will grow well in poor soil, sun
Forget-me-not	<i>Myosotis palustris s-f</i>	Pale blue	10"	May to Oct.	By seed, cuttings, or divisions; will spread very rapidly
Nigronette	<i>Reseda, vars.</i>	Pinkish white	10"	June to Oct.	Sow seed in open; thin to 8" apart; will not transplant readily
Hoary Speedwell	<i>Veronica incana</i>	Blue	10"	July and Aug.	By seed or division; prefers sandy soil; sun
Cowslip	<i>Primula veris</i>	Yellow	10"	April and May	By seed, or by division immediately after flowering; partial shade
Lead-wort	<i>Plumbago larpentae</i>	Purple	10"	Aug. to Nov.	By division; light soil; sun; light protection in Winter
Mountain Pink	<i>Phlox subulata</i>	Various	10"	April and May	By seed, cuttings, or division; will spread; dry soil; sun
Evening Primrose	<i>Oenothera macricarpa</i>	Yellow	10"	June to August	By cuttings or divisions; for the foreground; dry; sun
Cotch Pink	<i>Dianthus plumarius</i>	Various	10"	May and June	By seed or divisions; divide every three years; sun
Carpathian Hare-bell	<i>Campanula carpatica</i>	Blue, white	10"	June to Oct.	By seed, cuttings, or divisions; rock-garden; rich soil; sun
Dwarf Aster	<i>Aster alpinus</i>	Bluish purple	10"	May and June	By divisions; will grow best in partial shade
Wooly Yarrow	<i>Achillea tomentosum</i>	Yellow	10"	May June	By seed, cuttings, or divisions; in poor, dry soil; sun
Landytuft	<i>Iberis sempervirens</i>	White	10"	April and May	By seed, cuttings, or divisions; one of the best foreground plants
Poppy Mallow	<i>Callirhoe involucrata</i>	Red	10"	June to Nov.	By seed, or by cuttings; light soil; prefers sun
Rock Madwort	<i>Alyssum saxatile comp.</i>	Yellow	12"	April and May	By seed, cuttings, or divisions; cut back first blooms for second
Celand Poppy	<i>Papaver nudicaule</i>	White, red, yel.	12"	May to Oct.	Sow seed early in rich soil; sun; re-sow every other year
Floral-Bells	<i>Heuchera sanguinea</i>	Red	12"	May to Sept.	By seed or divisions; in sun or partial shade
Gloss Flower	<i>Ageratum, vars.</i>	Blue	12"	August to Nov.	Sow seed in warm soil outdoors; pick faded flowers for more bloom
Avens	<i>Geum Heldreichii</i>	Orange	12"	May and June	By seed or division; in moist soil; sun
Spring Adonis	<i>Adonis vernalis</i>	Yellow	12"	April and May	By newly ripened seed, or divisions; sandy soil; shade
Marigold	<i>Calendula</i>	Orange	12"	June to Nov.	Sow seed outside in early Spring; thin to 12" apart
California Poppy	<i>Eschscholtzia</i>	Various	12"	June to Nov.	Sow in Fall or Early Spring; thin to 8" apart; transplants poorly
Petunia	<i>Petunia, vars.</i>	Various	12"	June to Oct.	Sow best grade of seeds outside in May; thin to 9" apart
Wishbone Flower	<i>Torenia, vars.</i>	Yel. and lav.	12"	June to Nov.	Sow indoors in late March; transplant into warm soil
Meadow Sweet	<i>Spiraea astilboides</i>	White	14"	June	By seed, or better, by divisions; prefers moist soil; part shade
Sweet William	<i>Dianthus barbatus</i>	Various	14"	May and June	By seed sown in July for next year's bloom; poor soil will do; sun
Columbine	<i>Aquilegia caerulea</i>	Bluish	16"	May and June	By seed; easily affected by nearby varieties; sandy soil; sun
Spring Windflower	<i>Anemone sylvestris</i>	Pink	16"	April to June	By division; in rich soil; shade
Globe-flower	<i>Trollius Europaeus</i>	Yellow	16"	May and June	By seed, or better, by division; in cool, heavy soil; shade
Stoke's Aster	<i>Stokesia cyanea</i>	Blue	18"	June to Nov.	By division; sandy soil; sun
Billflower	<i>Matthiola, vars.</i>	Various	18"	June and July	Sow indoors and out, for long bloom; transplanting beneficial; 12" apart
Pyrethrum	<i>Pyrethrum hybridum</i>	Various	18"	June and July	By division in Spring; in rich, sandy, well-drained soil; sun
Japanese Primrose	<i>Primula japonica</i>	Various	18"	May to July	By newly ripened seed, or by division immediately after flowering; shade
Snape-dragon	<i>Antirrhinum, vars.</i>	Various	18"	June	Sow outdoors in warm soil; transplanting seedlings to 12" apart
Platoon-flower	<i>Platycodon Mariesi</i>	Blue, white	18"	June to Oct.	By seed, or less easily, by division; cut stems to ground in Fall
Love-in-a-mist	<i>Nigella damascena</i>	Blue, white	18"	May to Oct.	Sow seeds in Spring or Fall; thin to 10" apart
Cassell Flower	<i>Emileia flammea</i>	Orange	18"	June	Sow seeds in early Spring; thin to 4" apart
Orange Daisy	<i>Dimorphotheca, vars.</i>	Orange	18"	May and June	Sow outside in warm soil; thin to 12"-18" apart
Flax	<i>Linum perenne</i>	Blue	18"	May to Aug.	By seed or division; light, rich soil; sun
Giant Daisy	<i>Chrysanthemum max.</i>	White	18"	June to Nov.	By seed, cuttings, or divisions; mulch and water well while growing
Clarkia	<i>Clarkia elegans</i>	White, rose	18"	July to Oct.	Sow outdoors in early Spring, or in Fall with Winter protection; sun
Calliopsis	<i>Coreopsis drummondii</i>	Yellow	18"	June to Oct.	Sow directly in the border; thin to 10" apart; sun
China Aster	<i>Callistephus hortensis</i>	Various	18"	Aug. and Sept.	Water seed before sowing and cover with sand; set out 16" apart; sun
Garden Balsam	<i>Impatiens balsamina</i>	Various	18"	July to Sept.	Sow outdoors in May; rich, sandy soil; sun
Dwarf Starwort	<i>Aster ptarmicoides</i>	Red and yellow	18"	July and Aug.	By seed or division; not particular, but appreciative of good soil; sun
Sea Lavender	<i>Statice latifolia</i>	White	18"	July and Aug.	By seed sown in Spring; do not disturb after planting; sandy; sun
Blue Bonnet	<i>Scabiosa caucasica</i>	Lavender	20"	May to Oct.	By seed or divisions; protect in Winter; rich soil; sun
Evening Primrose	<i>Oenothera fruticosa</i>	Light blue	20"	June and July	By seed or cuttings; in dry sandy soil; sun
Mountain Bluet	<i>Centaurea monatna</i>	Yellow	20"	May to Sept.	By seed or seedlings; any soil; sun
Mist Flower	<i>Eupatorium coelestinum</i>	Blue purple	20"	Sept. and Oct.	By cuttings; any soil; sun; protect in Winter
Speedwell	<i>Veronica longifolia</i>	Blue	24"	July to Sept.	By seed or divisions; in rich soil; sun
Spiderwort	<i>Tradescantia virginiana</i>	Blue	24"	May to Sept.	By cuttings or divisions; any soil; sun or part shade
Butterfly Flower	<i>Schizanthus</i>	Blue	24"	June to Oct.	Sow in late Spring; transplant 18" apart with ball of earth; stake
Jacob's Ladder	<i>Polemonium caeruleum</i>	Various	24"	May to Aug.	By seed sown in Fall, or by divisions; moist, rich soil; part shade
Painted Tongue	<i>Salpiglossis</i>	Violet blue	24"	June to Sept.	Sow the fine seeds carefully in warm soil; set out 6" apart; sandy
Early Phlox	<i>Phlox suffruticosa</i>	Various	24"	May to July	By divisions; divide every three years in late Fall; rich, moist soil; sun
Cardinal Flower	<i>Lobelia cardinalis</i>	Various	24"	July and Aug.	By seed, cuttings, or divisions; moist, rich soil; sun or part shade
Four o'Clock	<i>Mirabilis</i>	Red	24"	Aug. to Nov.	Sow seeds thinly in rows in warm soil; thin to 18" apart
Blanket Flower	<i>Gaillardia grandiflora</i>	Various	24"	June to Nov.	By seed, cuttings, or divisions; will generally not come true to parent seed
Prickly Poppy	<i>Argemone grandiflora</i>	White	24"	July to Nov.	Sow seeds thinly to avoid transplanting; will re-sow itself
Bleeding Heart	<i>Dicentra spectabilis</i>	Rose	24"	April to June	By division; in rich, light loam; partial shade
African Daisy	<i>Arctotis</i>	Blue and white	24"	July to Nov.	Sow seeds in warm soil in Spring; transplant to 18" apart
Chinese Larkspur	<i>Delphinium sinense</i>	Blue, white	24"	June to Oct.	By seed, cuttings, or divisions; deep, rich, sandy soil; sun
Coreopsis	<i>Coreopsis lanceolata</i>	Yellow	24"	May to Sept.	By seed or divisions; not particular as to soil; sun
Butterfly Weed	<i>Asclepias tuberosa</i>	Orange	24"	July and Aug.	By divisions; prefers dry soil; full sun; cut down after blooming
Golden Marguerite	<i>Anthemis tinctoria</i>	Yellow	24"	May to Oct.	By seed or division; plant in large clumps; any soil; full sun
Double Sneezewort	<i>Achillea Ptarmica</i>	White	24"	May to Oct.	By cuttings or divisions; in rather moist soil; sunny exposure
Loosestrife	<i>Lysimachia clethroides</i>	White	30"	June to Aug.	By seed or divisions; prefers moist soil; sun
Rose-campion	<i>Agrostemma Coronaria</i>	White, crimson	30"	June, July	By seed; not particular as to soil; sun
Red-hot-Poker Plant	<i>Tritoma Pfitzeri</i>	Orange	30"	Aug. to Nov.	By division; protect south of Philadelphia; take up rhizomes in North
Rosy Meadow-Sweet	<i>Spiraea palmata</i>	Pinkish	30"	June to Aug.	By seed or divisions; moist, rich soil; partial shade
Lone-flower	<i>Rudbeckia speciosa</i>	Orange	30"	July, Aug.	By divisions or cuttings; not particular as to soil; sun or part shade
Pincushion Flower	<i>Scabiosa atropurpurea</i>	Various	30"	June to Nov.	Sow seeds outside in May; transplant to 8" apart; remove seed heads
Balloon-flower	<i>Platycodon grandiflorum</i>	White, purplish	30"	July to Nov.	By seed or division; in sandy, well drained soil; sun or part shade
Early Peony	<i>Paeonia officinalis</i>	Various	30"	May, June	By division in early Fall; cover with manure over Winter; sun or part shade
German Iris	<i>Iris Germanica</i>	Various	30"	May, June	By divisions immediately after blooming season; rich soil; sun
Yellow Foxglove	<i>Digitalis ambigua</i>	Yellow	30"	June, July	By seed or divisions; light, moist soil; part shade; keep cut back
Gas Plant	<i>Dictamnus Fraxinella</i>	White	30"	June, July	By newly ripened seed in open ground, blossoming three years later; sun
Chrysanthemum	<i>Chrysanthemum indic.</i>	Various	30"	Sept. to Nov.	By seed and cuttings; in rich, light soil; sun; protect in Winter
Michaelmas Daisy	<i>Aster grandiflorus</i>	Purplish	30"	Sept. to Nov.	By seed or division; rich, moist soil; the best of the hardy asters
Columbine	<i>Aquilegia vulgaris</i>	White	30"	May, June	By seed or seedlings; rich, moist, sandy, well drained soil; sun
Zinnia	<i>Zinnia elegans</i>	Various	30"	Aug., Sept.	Sow seed in cold frame in March, transplant to shallow boxes; set out 18"
Oriental Poppy	<i>Papaver orientale</i>	White	30"	May, June	By newly ripened seed or by division in August; do not disturb; sun
Siberian Iris	<i>Iris Sibirica</i>	Various	30"	May, June	By division; plant deep and water well; rich soil; sun
Yellow Day-Lily	<i>Hamocallis Flava</i>	Yellow	30"	May, June	By division; thrives best in rich, moist soil and partial shade
Baby's Breath	<i>Gypsophila paniculata</i>	White	30"	June to Sept.	By seed, cuttings, or divisions; dry; sun
Leopard's-bane	<i>Doronicum plantaginum</i>	Orange	30"	April, May	By divisions; in rich, well drained soil; sun

HOUSE & GARDEN'S GARDENING GUIDE
ANNUALS AND PERENNIALS—CONTINUED

COMMON NAME	BOTANICAL NAME	COLOR	Height	SEASON OF BLOOM	DIRECTIONS
Windflower	Anemone Japonica	Various	30"	Sept. to Nov.	By seed or divisions; should not be disturbed; protect slightly; shade
Garden Heliotrope	Valeriana officinalis	Lavender	36"	May to Aug.	By seed or divisions; any sunny location; spreads quickly
False Dragon's-head	Physotegia Virginica	White, rose	36"	June to Sept.	By division in Spring; rich, moist soil; sun
Hardy Phlox	Phlox paniculata	Various	36"	June to Oct.	By division; rich, moist soil; sun; cut back
Rose Loosestrife	Lythrum Salicaria	Rose	36"	July, Aug.	By division; unparticular as to soil or exposure
Jerusalem Cross	Lychnis Chalcedonica	Red	36"	June, July	By seed or divisions; light, rich soil; full sun
Japanese Iris	Iris laevigata	Various	36"	June, July	By divisions immediately after blooming; water well; rich soil; sun
Purple Cone-flower	Echinacea purpurea	Purple	36"	June to Nov.	By seed or divisions; rich, sandy soil; full sunlight
Marguerite	Chrysanth. coronarium	Yellow	36"	Aug. to Nov.	Sow seed in open in April; set 12" apart; pinch back; sun
Foxglove	Digitalis purpurea	Various	36"	June, July	By seed; best treated as biennial; light, moist soil; sun or part shade
Oriental Larkspur	Delphinium formosum	Purple	36"	June to Nov.	By seed, cuttings, or divisions; seed sown in August blooms in June
Larkspur	Delphinium Belladonna	Blue	36"	June to Nov.	By seed, cuttings, or divisions; seed sown in August will bloom in June; sun
Shrubby Clematis	Clematis Davidiana	Blue	36"	July, Aug.	By cuttings or divisions; mix lime in soil; watered well; sun; stake
Canterbury-bells	Campanula Medium	Various	36"	June, July	Set out young plants in May; treat as biennials; sun
False Indigo	Baptisia australis	Deep blue	36"	June	By seed or divisions; for the back of the border; any soil; sun
Ox-eye	Heliopsis laevis	Orange	36"	July, Aug.	By division; divide fairly often; dry soil; sun
Golden Columbine	Aquilegia chrysantha	Yellow	36"	May to August	By early sown seed or division; deep, moist, sandy loam; sun
Pink Meadow Rue	Thalictrum aquilegifo.	Rose	36"	May to July	By seed or division; well drained soil; sun or part shade
Meadow Sage	Salvia azurea	Blue	40"	Aug., Sept.	By seed or division; light, sandy soil; slight protection in Winter; sun
Lupine	Lupinus polyphyllus	Various	40"	May, June	By seed or division; do not disturb after planting; any soil; sun
Alkanet	Anchusa Italica	Blue	40"	May to July	By root, cutting, or seed; cut down after blooming; water well; rich soil
Beard-tongue	Pentstemon barbatus	Orange	48"	June, July	By seed or division; sandy soil; sun; use plenty of well rotted manure
Tree Peony	Paeonia Mountain	Various	48"	May	Plant roots after August; prepare deep, well manured soil; the largest peony
Hairy Sunflower	Helianthus mollis	Deep yellow	48"	July to Sept.	By seed or division; thrives in any soil; sun
Cape Hyacinth	Galtonia candicans	White	48"	July, Aug.	By offsets or seed; in light, rich soil; sun; protect in cold sections
New York Aster	Aster Novi-Belgii	Rose, lavender	48"	Sept. to Nov.	By seed or divisions; in any soil; preferably moist; sun
New England Aster	Aster Novae-Angliae	Rose, lavender	48"	Sept. to Nov.	By seed or divisions; in any soil; requires staking
Monk's hood	Aconitum Napellus	Purple	48"	Aug., Sept.	By divisions; rich, moist soil; partial shade; requires staking
Fern-leaved Yarrow	Achillea filipendulina	Yellow	48"	July	By seed, cuttings, or divisions; dry soil; sun; requires staking
Sneeze-weed	Helenium autumnale	Yellow	54"	Aug., Sept.	By seed, cuttings, or divisions; moist, rich soil; sun; susceptible to aphid
Gay Feather	Liatriis pycnostachya	Purple	54"	July, Aug.	By Fall sowing or by divisions; rich, light soil; partial shade
Giant Daisy	Pyrethrum uliginosum	White	54"	Aug., Sept.	By seed, cuttings, or divisions; rich, moist, heavy soil; sun
Red Sneeze-weed	Helenium autumnale	Red	54"	July, Aug.	By seed, cuttings, or divisions; moist, rich soil; sun; susceptible to aphid
American Senna	Cassia Marylandica	Yellow	60"	July, Aug.	By seed or divisions; cut down after blooming; moist or dry soils; sun
Larkspur	Delphinium hybridum	Blue to Purple	60"	June to Nov.	By seed, cuttings, or divisions; seed sown in August will bloom in June; sun
False Camomile	Boltonia latissuama	Rose	60"	July to Oct.	By division; prefers moist soil; sun
False Goat's-beard	Astilbe Davidii	Pink	60"	June, July	By divisions; not particular as to soil; partial shade
Swamp-rose	Hibiscus	Various	60"	Aug. to Oct.	By seed or division; in moist soil; partial shade
Cosmos, vars.	Cosmos	Various	60"	Sept. to Nov.	Start in hot-beds in March; set out in warm soil; stake; sun
Hardy Sunflower	Helianthus rigidus	Yellow	60"	Aug., Sept.	By divisions; light, dry soil; sun; transplant often for good development
Plume Poppy	Bocconia cordata	Pinkish	60"	July	By seed or by suckers; apt to spread vigorously; any soil; sun
Hollyhock	Althaea rosea	Various	60"	July, Aug.	By seeds and cuttings; deep, rich soil; sun; may require staking

SUMMER FLOWERING BULBS

Gold-banded Lily	Lilium auratum	Cream to purple	36"	July, Aug.	Plant on layer of sand in well prepared soil, 6" below surface; mulch; sun
Lilium elegans	Bate's Lily	Apricot	30"	July, Aug.	Do not let manure come in direct contact with any of the lilies; same as above
Madonna Lily	Lilium candidum	White	36"	June, July	Plant 4" below surface in well drained soil; except for depth, same as above
Thunberg's Lily	Lilium Thunbergii	Orange	24"	June, July	Bulb should be covered with light soil mixed with leaf mould; 6" below surface
Henry's Lily	Lilium Henryi	Spotted orange	72"	Aug., Sept.	Same as above
Japanese Lily	Lilium speciosum	Spotted white	36"	Aug., to Sept.	Same as above
Turk's-head Lily	Lilium superbum	Spotted orange	60"	June, July	Same as above
Tiger Lily	Lilium tigrinum	Spotted orange	48"	July, Aug.	Same as above
Siberian Coral Lily	Lilium tenuifolium	Scarlet	42"	June	The base of the bulb should come 4" below the surface of the ground
Summer Hyacinth	Hyacinthus candicans	White	42"	Aug., Sept.	Set out in well drained soil mixed with leaf mould; may require staking; sun
Gladiolus	Gladiolus, vars.	Various	36"	Aug., Sept.	Set pips out in light, friable soil, mixed with peat; succession of plantings
Crow Foot	Ranunculus	White, yellow	10"	June	Single and double forms; easily grown; good for cuttings
Fairy Lily	Zephyranthus	White, pink	10"	June to Sept.	Plant in clumps in the foreground of the border; store in warm place
Giant Asphodels	Eremurus, vars.	Various	72"	June, July	Plant in rich, well drained soil; may require staking
Blazing Star	Montbretia crocos.	Red	36"	June to Oct.	Plant in rich, well drained soil; sun

ANNUAL AND PERENNIAL VINES

COMMON NAME	BOTANICAL NAME	CHARACTER	DIRECTIONS
Moon Vine	Calonyction aculeatum	Fragrant white and purple flowers	Start from seedlings; needs a long, warm season
Hyacinth Bean	Dolichos lablab	Tall and twining; purple and white flowers	Plant from seed
Akebia	Akebia quinata	Fragrant rosy purple flowers in early Spring	Propagate by layers
Wisteria	Wisteria, vars.	Fragrant lavender clusters in Spring; long lived	Plant healthy nursery grown stock
Wild Cucumber	Echinocystis lobata	Rapid growing; inconspicuous greenish white flowers	Grow in rich soil in an out-of-the-way place
Hop Vine	Humulus lupulus	Vigorous; beautiful when in fruit	Propagate by division or seed
Knotweed	Polygonum bald.	Vigorous; sprays of rosy-tinted flowers	Graft on pieces of its own roots
Jap. Morning Glory	Ipomea hederacea	Flowers from white to lavender	Plant seedlings
Morning Glory	Ipomea purpurea	Flowers from white to lavender	Plant seedlings
Honeysuckle	Lonicera, vars.	Rapid grower for covering slopes; flowers fragrant and various	Plant seedlings
Scarlet Runner Bean	Phaseolus multiflorus	Purple and white flowers; purplish beans	Plant from seed
Cup-and-saucer Vine	Cobea Scandens	Light violet, bell shape flowers	Place seed in moist earth, edge down
Kudzu Vine	Pueraria thunbergiana	A very vigorous grower	Plant from seedling
Japanese Clematis	Clematis paniculata	A beautiful vine, covered in early Summer with small white flowers	Use young nursery stock
Large Flowering Clematis	Clematis montana, vars.	White, rose, lavender flowers	Use young nursery stock
Trumpet Vine	Bignonia radicans	A well known favorite	Plant from seedlings
Dutchman's Pipe	Aristolochia siph.	Robust vine for dense shade	Propagate from cuttings
Asiatic Creeper	Ampelopsis heterophylla	Splendid for stone and brick walls	Propagate from cuttings in sand
Cut Leaved Vitis	Ampelopsis aconitifolia	For masonry walls	Propagate from cuttings in sand
Virginia Creeper	Ampelopsis quinquefolia	Heavier growing than other varieties	Propagate from cuttings in sand
Boston Ivy	Ampelopsis tricuspidata	For masonry walls	Plant in rich soil from seed; shelter
Silver Vine	Actinidea, vars.	White waxy flowers	Use nursery grown stock
Bittersweet	Celastrus scandens	Shrubby in growth; decorative fruits	Use nursery grown stock
Matrimony Vine	Lycium halimifolium	Shrubby; purple flowers; red fruits	Use nursery grown stock
Euonymous	Euonymous radicans	Oval, evergreen leaves; a splendid vine	Use nursery grown stock
English Ivy	Hedera helix	Practically evergreen; or walls and ground cover	Propagate from cuttings in sand

VEGETABLES FOR A CONTINUOUS SUPPLY

VEGETABLE AND TYPE	VARIETY	FIRST PLANTING	SUCCESSIVE PLANTINGS WEEKS APART	AMOUNT OR NUMBER FOR 50' ROW	DIRECTIONS
Bean, bush, Green Pod	Early Bountiful	April 15	2-3: to Aug. 15	1 pt. 15" x 4"	In dryest soil available; cover first planting 1" deep.
Bean, bush, Wax	Rust Proof Golden Wax	April 20	2-3: to Aug. 1	1 pt. 18" x 4"	In dryest soil available; cover first planting 1" deep.
Bean, bush, Lima	Burpee Improved	May 1	3-4: to July 15	1 pt. 24" x 6"	Plant with eye down, when there is prospect of several days' dry weather.
Bean, pole	Golden Cluster	April 25	June 15	¼ pt. 4' x 3'	Place poles before planting in rich hills; thin to best plants.
Bean, pole, Lima	Early Leviathan	May 1	June 15	¼ pt. 4' x 4'	Eye down in slightly raised hills; thin to best two.
Beets, Ex. Early	Early Model	April 1	3-4: to Aug. 15	1 oz. 12" x 2"	First planting shallow, about ½" deep and thick.
Beets, main and winter	Detroit Dark Red	May 1	3-4: to Aug. 15	1 oz. 12" x 3"	In dry weather, soak seeds; firm well; for winter use sow about three months before harvesting.
Brussels Sprouts	Dalkeith P	June 15	July 15	35 24" x 18"	Transplant at four to six weeks; same treatment as late cabbage; pinch out tops of stalks when "buttons" are formed.
Cabbage, Ex. Early	Copenhagen M't	April 1 P		35 24" x 18"	Set out well hardened off plants as soon as ground can be worked; fertilize in rows.
Cabbage, summer	Succession	May 1 P	June 1	30 30" x 18"	Light applications of nitrate of soda beneficial; to keep mature heads from splitting, pull enough to loosen roots in soil.
Cabbage, late	Danish Ball Head	July 1 P	July 15	30 30" x 18"	Transplant from seed sown June 1st; use water in bottoms of holes if soil is dry; firm well.
Carrots, Ex. Early	Early Scarlet Horn	April 15	3-4: to Aug. 15	½ oz. 12" x 1"	First planting thick, ¼" to ½" deep; thin early.
Carrots, main and winter	Danvers	May 15	July 15	½ oz. 12" x 2"	Select rich, deep soil to get smooth roots; for storing plant about 90 days before the harvesting time.
Cauliflower, spring and fall	Early Snowball	April 10 P	4: to July 10	35 24" x 18"	Enrich rows; protect from cutworms; plenty of water when heading.
Celery, Early	Golden Self-Blanching	May 1 P	June 1	100 24" x 6"	Enrich rows; plenty of water; hill up to keep stalks upright; blanch two weeks before using.
Celery, late	Winter Queen	June 1 P	July 15	100 36" x 6"	Sow seeds six to eight weeks before transplanting; hill up; store in cellar for winter.
Corn, Early	Golden Bantam	May 1	3: to July 15	½ pt. 3' x 2'	First planting in dry soil; cover only 1" deep; give protected sunny exposure if possible.
Corn, main crop	Country Gentleman	May 1	4: to July 1	½ pt. 3' x 3'	Thin to 3 or 4 stalks in hill; plant 3" deep in dry weather; cultivate shallow.
Cucumber, for slicing, etc.	Davis Perfect	May 1	June 15	¼ oz. 4' x 4'	Enrich hills; thin to 3 or 4 plants; protect from striped beetle.
Cucumber, for pickling	Ever-bearing	June 1	July 1	¼ oz. 4' x 4'	Gather fruits while quite small; keep them all picked for continuous bearing.
Egg-plant	Black Beauty	May 20 P		25 30" x 24"	Enrich hills; give plenty of water; protect from potato bugs.
Endive	Giant Fringed	June 1	4: to Aug. 1	½ oz. 12" x 12"	Culture same as for lettuce save that leaves should be tied up to blanch for use.
Kohlrabi	White Vienna	April 10	4: to July 10	½ oz. 15" x 4"	Treatment similar to turnips; thin out as soon as possible; begin to use while small, 1" or so in diameter.
Leek	American Flag	April 15	4: to June 15	½ oz. 15" x 3"	Transplant at size of lead pencil to deep, well enriched trenches, hill up to bleach.
Lettuce, loose leaf, for spring	Grand Rapids	April 10 P	3: to May 20	50 12" x 6"	Sow seed when plants are set out, and for succession plantings, thinning out early.
Lettuce, spring and fall	Big Boston	April 10 P	3: to May 20	50 12" x 8"	Thin out early; for fall, plant July 15 to August 15.
Lettuce, "Crisp Head," for summer	Brittle Ice	May 15	June 15	¼ oz. 12" x 10"	Give plenty of water; top-dress with nitrate of soda; thin out as soon as possible.
Melons, musk	Netted Gem	May 1	June 15	¼ oz. 6' x 4'	Enrich hills with old compost and wood ashes; add sand in heavy soil; protect from striped beetle.
Melons, musk, bush	Henderson's Bush	May 1	June 15	¼ oz. 4' x 3'	Same as for musk melons; pinch out tips of runners at 5' or 6'.
Melons, water	Halbert Honey	May 15		¼ oz. 6' x 6'	Give warm, rich soil; nitrate of soda during early growth; treat like corn; use pods while young.
Okra	White Velvet	May 15		½ oz. 3' x 15"	Mark out drill; insert up to neck.
Onions, "sets"	Yellow Danvers	April 1		½ pt. 12" x 2"	Keep clean; top-dress with nitrate of soda; do not thin until well along.
Onions, globe		April 1		½ oz. 12" x 2"	Start seedlings and transplant to rich soil; give plenty of water.
Onion, large Spanish	Gigantic Gibraltar	April 10 P		150 12" x 3"	Soak seed for twenty-four hours; cover very lightly; thin out early.
Parsley	Emerald Curled	April 15	June 15	½ oz. 12" x 4"	Cover first planting about 1" deep; sow only a small quantity as wrinkled variety is better flavored.
Peas, smooth	Alaska	April 1		1 pt. 30" x 2"	Dwarf varieties 22" x 2"; make first plantings in light soil, or on slightly raised drill ½" to 1" deep.
Peas, Early, wrinkled	Gradus	April 10	3: to May 20	1 pt. 36" x 2"	Make later plantings in trench, filling in gradually as vines grow; plant early varieties July 20 to August 10 for fall crop.
Peas, wrinkled, main crop	Alderman	April 15	3: to June 15	1 pt. 36" x 2"	Same as for egg-plant; use good strong potted plants for both to get best results.
Peppers, large fruited	Ruby King	May 15 P		40 24" x 15"	Top-dress with nitrate of soda during early growth.
Peppers, small fruited	Coral Gem Bouquet	May 15 P		40 24" x 15"	Select deep, loose soil or trench before planting.
Parsnips	Improved Hollow Crown	April 10		¼ oz. 18" x 3"	For earliest results sprout four weeks in sunlight before planting.
Potatoes	Irish Cobbler	April 10		½ pk. 28" x 13"	Plant in rich hills; if space is limited, put near edge of garden, or train where vines can run along fence.
Pumpkin	Quaker Pie	May 15		¼ oz. 6' x 6'	Make frequent small sowings; work lime plaster, soot or wood ashes into row, take up and destroy roots not used.
Radish, Early	Crimson Giant Globe	April 1	2: to Sept. 15	½ oz. 12" x 1"	Thin out early; plant in finely prepared soil.
Radish, summer	Chartiers	May 1	3: to Aug. 1	½ oz. 12" x 2"	Roots for storing in winter should not be planted until quite late, as they are better both in keeping and eating qualities not overgrown.
Radish, winter	White Chinese	June 15	4: to Aug. 15	½ oz. 12" x 3"	Excellent for storing for winter; culture similar to turnip; late planting makes best quality roots.
Rutabaga	Golden Necklace	May 1	4: to July 1	½ oz. 15" x 4"	Be careful to get seed thick enough; sow in deep, fine soil to get smooth roots.
Salsify	Sandwich Island	April 10		¾ oz. 15" x 2"	Sow in rich soil; thin first to 2" apart; second thinning may be used for table; apply nitrate of soda.
Spinach	Victoria	April 1	4: to Sept. 1	½ oz. 15" x 4"	For bush 4' x 3'; enrich hills; thin to two or three plants; protect from bugs.
Squash, summer	Golden Summer Crook-neck	May 1	June 1	¼ oz. 5' x 4'	Thin to two plants when vines begin to crowd; watch for borers; protect from squash bugs.
Squash, winter	Hubbard	May 15	June 15	¼ oz. 6' x 6'	Sow about half as thick as beets; thin out as soon as well started; cut leaves in gathering 3" or so above crown.
Swiss chard	Luculous	April 10		¾ oz. 18" x 8"	Enrich hills; use plant support or stake; keep suckers trimmed off; apply nitrate of soda.
Tomato, Early	Bonnie Best (Chalk's Jewel)	May 1 P		25 4' x 2'	Use poison bait for cutworms before setting out; thin fruit clusters if fruit rot appears.
Tomato, main crop	Stone	May 15		18 4' x 30"	Sow thinly and thin out as soon as possible.
Turnip, summer	Amber Globe	April 10	4: to Sept. 1	½ oz. 12" x 3"	For winter use do not sow too early, two to three months before harvesting, according to variety.
Turnip, winter	White Globe	June 1	Aug. 1	½ oz. 12" x 4"	

NOTES ON VEGETABLES

"P"—plants from frames or seed-beds.

First figure under Directions indicates distance between rows; second between plants in row after thinning, or between hills.

Drills are continuous rows, in which the seeds are sown near together, and the plants even after thinning stand at irregular distances, usually touching.

Rows have the plants at regular distances, but so near together that machine cultivation is attempted only between the rows.

Hills, which are usually especially enriched before planting, are isolated groups

or clusters of plants, generally about equidistant—3 or more—each way.

Thinning consists in putting out the surplus seedlings as soon as most of the seeds are up.

Hilling is drawing the soil up toward the roots or stems, often overdone—usually a wide, slight hill is the best.

Blanching is necessary to prepare some plants such as celery and endive, for eating; excluding the light, banking with earth, tying up the leaves, covering with prepared paper, and storing accomplish this result.

THE SUCCULENT VEGETABLES OF SPRING

Plant Early and Pluck Early Is the Rule for Gardeners

Who Want Tender Vegetables

JOSEPH HENRY SPERRY

LET us put ourselves in the place of an amateur gardener who has to do the best he can without the valuable aid of a small greenhouse or hot bed or even a cold frame, and who has simply a goodly garden plot kissed by the sun and the winds and watered by the dew and the rain. Here it is and he is going to try to grow as many high quality early vegetables as intelligent effort will produce.

He has prepared his garden as early in the Spring as the ground can be worked by digging it deep, pulverizing the soil well, and fertilizing it freely. Not a day is allowed to pass, the weather being even moderately favorable or endurable before he begins to sow the seeds which in good time will spring up and grow into tender, toothsome vegetables for his family table.

It is a garden paradox that the most delicate and tenderest vegetables are produced from early to mid-spring when the weather is by no means tender, and frosts are not uncommon, and cool rains are frequent, and even flurries of snow appear, and when the nights are still nearly as long as the days, and that vegetables of the same kinds equally delicate cannot be produced when the long, warm, dry, delicate days, we may call them, of late spring and early summer are with us. In short, vegetables which will endure a few degrees of frost, when young, when grown in a temperature

of no more than 8° to 18° above the freezing point and in ten or eleven hours of darkness are of a superior quality. This is the reason why we plant early to get tender, delicate vegetables, plant even when the air of early Spring is raw and chilly, and our fingers get a bit numb while sowing the seeds. Almost every year since boyhood I have planted or helped to plant a vegetable garden and have planted it early, and the results have almost always justified this practice.

The kinds of vegetables which we may plant early are by no means few. Here is the array: beets, Crosby's Early Egyptian and Early Wonder; Swiss chard, Giant Lucullus; cabbage, Early Jersey Wakefield, Early Spring; cauliflower, Snowball; carrots, Early French Forcing, Chantenay; lettuce, Mignonette, Boston Market (White Seeded Tennis Ball), Big Boston; kohlrabi, White Vienna; parsley, Champion Moss Curled; peas, Dwarf Varieties, Laxtonian, Sutton's Excelsior, Nott's Excelsior; Tall varieties, Prosperity (Tradus), Thomas Laxton; Radish, Early Scarlet Turnip; onions, from seeds, White Portugal or Silver Skin, from sets, White (grown from White Portugal), Yellow (grown from Yellow Danvers); turnips, Early White Milan; and some of the novelties.

The wise amateur gardener buys the best seeds of each kind; he knows that the dif-

ference in cost between high bred and low bred seeds is negligible. If, indeed, he is of an economical turn of mind, he scrimps in some of his other expenses but not in his seed expenditures; if he notes two or three strains of the same variety of seed offered in a seedman's catalogue he selects the best as far as he can judge from the catalogue description, and pays the highest price; he is not possessed with the worse than silly notion that a seed catalogue is a publication in which seedsmen give exaggerated description of the products of their seeds; he knows that this is not true. Novelties? Yes, he buys a few novelties each year, because the intelligent gardener is a progressive man; he feels that there may be improvements in varieties of vegetables, just as there are yearly improvements in the kind of automobile he drives. He knows that many of these novelties in seeds are, perhaps, only old varieties bred up by intelligent selection, but brought up to such a point of perfection that in quality they are far away above their parent variety.

The amateur buys plenty of seeds and sows them rather thickly. He knows that he allows to stand and grow only a small percentage of the plants springing from the seeds which he sows, that in a sense the best of the seeds planted and coming up are wasted, and that this, except in the care of the transplanted plants, cannot well be

(Continued on page 146)

50'			
Early	CABBAGE	1/2 Row	
	CAULIFLOWER	1/2 "	
	CABBAGE	1 "	
	CAULIFLOWER	1 "	
	BEETS (P)	1 "	
	LETTUCE (P)	1 "	
	RADISH	1/2 "	
	LETTUCE	1 1/2 "	
	BEETS	2 "S	
	CARROTS	2 "S	
	KOHLRABI	1/2 "	
	TURNIP	1 "	
	SPINNACH	1 "	
	ONION SETS		
	ONION		
	PARSNIP		
	SALSIFY		
	SWISS CHARD		
Early	PEAS	4 "S	
Early	CORN	3 "S	
Early	POTATOES	2 "S	
	CELERY	2 Rows	
	LETTUCE	1 Row	
	CARROTS	1 "	
	BEETS	2 "S	
	CAULIFLOWER	1 "	
	CABBAGE	1 "	
	LEEK	1/2 "	
		1/2 "	
		3 1/2 "S	
		3 "S	
		3 "S	
		1 "	
	BRUSSELS SPROUTS	1 "	
	TURNIPS	3 "S	
	LETTUCE	1 "	
	Tall PEAS	3 "S	
	CORN	July 1" in furrow	

50'			
	MELONS		
	POLE BEANS		
	POLE LIMAS		
	CORN		
	4 Rows		
	Dwarf BEANS	2 Rows	
	LIMA BEANS	1 Row	
	CELERY		
	PEAS		
	Dwarf PEAS		
	CUCUMBERS	6 Hills	
	WATERMELON	4 Hills	
	Before Cucumbers & Mellons		
	TOMATOES	16 Plants	
	PEPPERS (10)		
	EGG PLANT (10)		
	Dwarf PEAS		
	SUMMER SQUASH	6 Hills	
	WINTER SQUASH	4 Hills	
	Before Planting Squash		

This vegetable garden is designed for a space 102' x 50', divided into two sections by a path. In the right hand plot are grown most of the permanent crops—cucumbers, melons and squashes which do not mature till late in the summer; in the left hand plot there is more room for succession crops, to follow those that are finished by late spring

MOTORS IN THE HOME

A Universally Applicable Machine, The Motor Should Be Understood by Every Up-to-Date Housewife

ETHEL R. PEYSER

THE motor is like the old traditional woman; it takes its sustenance from another—in this case not from the currency maker, but from the current maker, the dynamo, or generator—and turns it into service for running things.

Household electrical equipment is divided into two general classes—those that are motor driven and those that are electrically heated.

In this article only the motor driven apparatus will be considered.

Some of the motor driven utensils that we all know are the washing machine, dishwasher, electric piano player, vacuum cleaner, electric fan, electrically operated phonograph, clothes dryer, (in which the water is driven out by centrifugal force resulting from the rapid whirling of a tub driven by a motor) ice cream freezer, egg beater, mixer, whipper, chopper, grinder, buffer, etc.

To understand the motor, one must first understand the dynamo, or generator which supplies it with power.

The generator consists of an iron core or armature, wound with wire, which is made to revolve at high speed through a magnetized space. This magnetized space or "field", is caused by electro-magnets placed about the revolving core, or armature. The armature, in the act of revolving through this magnetized space, cuts through the imaginary "lines of force," which is the name given to the flow of magnetism that fills the area in which the armature revolves. In cutting through this mag-

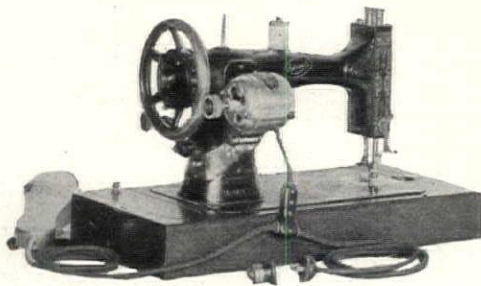
netism, an electric current is set up in the wires wound around the armature. No one knows exactly why this happens. We do know, however, that it does happen, and that we can measure the effect accurately. It has been found furthermore that the current set up in the armature varies according to the speed with which it turns and also in relation to the number of turns of wire wound about it.

The generator must always be operated from an outside source of power, such as the steam turbine, water wheel, gasoline engine, etc. By building generators in different ways, either an alternating current, (one which fluctuates back and forth, and known as A. C.) or a direct current, (which flows uniformly in the same direction, and called D. C.) can be produced. The speed of the change, in alternating current, from one direction to the other, is termed frequency, and this is measured in cycles. Sixty cycles means that the current alternately flows sixty times in one direction, and sixty times in the other in the course of a second.

The motor is, generally speaking, the same kind of a device as the generator, but whereas the generator is for supplying the electric current, the motor is for using it and converting it into mechanical power.

There are three things to remember in connection with the purchase of a motor driven device. Whether the motor is constructed to be run by alternating or direct current; if the former, the number of cycles for which

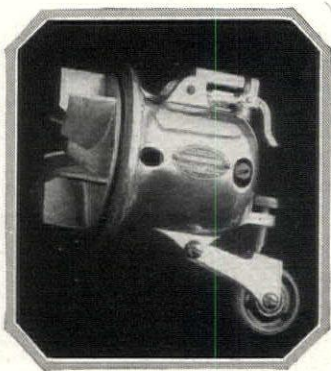
(Continued on page 134)



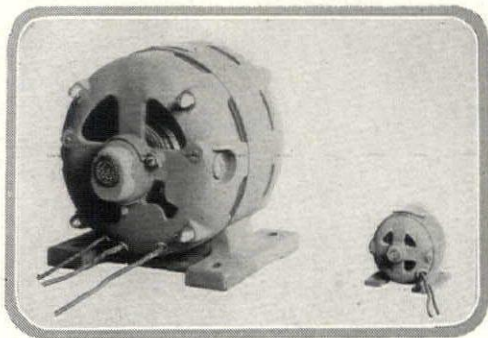
The motor attached to a sewing machine has revolutionized domestic sewing



The buffer and the beater are both electrical units in this kitchen group that use minute motors

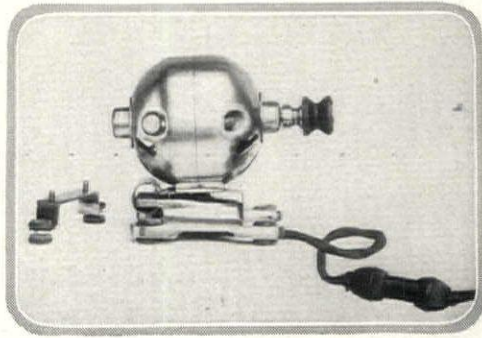


The motor for a vacuum cleaner is cased in this fashion and drives the suction fan



The extremes of household motors From 3/4ths to 1/200th horse power. Courtesy General Electric Company.

A general utility power motor, to which the housewife attaches a belt and can drive a number of units



KEY TO NUMBER IN PLANTS IN BORDER

1. Statice latifolia, 2½', mauve, gray foliage, "everlasting", July—September.

2. Alyssum saxatile compactum, dwarf, golden yellow, May—June.

3. Aubrietia, dwarf, deep purple, April—June.

4. Viola lutea splendens, dwarf, golden yellow, April—August.

5. Helianthus maximiliana, 6', golden yellow, August—September.

6. Iris flavescens, 2', yellow, June.

7. Oenothera missouriensis, 2', golden yellow, June—September.

8. Anemone japonica Whirlwind, 3', semi-double white, August—October.

9. Chrysanthemum maximum King Edward, 3', white, July—August.

10. Lavendula vera, 3', mauve, gray foliage, August—September.

11. Iris florentina, 2', white, fragrant, May.

12. Antirrhinum Golden Queen, 18", yellow, June—September.

13. Dianthus Allwoodii, 1', white, fragrant, May—October.

14. Spiraea or Astilbe grandis, 5' 6", white, June—July.

15. Achillea filipendula (Eupatorium), 5', golden yellow, July—August.

16. Peony Duchesse de Nemours, white, fragrant; Solfaterre, sulphur yellow, 3', June.

17. Hemerocallis Fulva, 3', coppery orange, July.

18. Lupinus polyphyllus hybrids, mixed colors, 4', May—September.

19. Gladiolus primulinus, 2', August.

20. Papaver Orientalis Oriflame, orange, scarlet, 2½', May—July—October.

21. Doronicum Excelsum, 3', golden yellow, April—May.

22. Primula vulgaris polyantha, dwarf, golden yellow, April—May.

23. Aster Novi-Belgii Glory of Colwall, 4', double, lilac, September—October.

24. Gypsophila paniculata flore pleno, 3', white, July—August.

25. Phlox paniculata (decussata) Eugene Danzandvilliers, lilac, 3'; Violetta, purple, 2'; Le Mahdi, deep violet, 2½', August—October.

26. Iris germanica Kharput, 3', mauve and purple, May; Iris neglecta Blue Jay, 2', blue and violet, June; Iris Trojana, Lord of June, 3½', lavender and violet, fragrant, June.

27. Papaver nudicaule, 2-3', white, yellow and orange, May—September.

28. Myosotis, 6", lavender, May—June.

29. Campanula Medium, 3', blue and pink, June—July.

30. Echinops Ritro, 3-4', blue and gray, July—August.

31. Gladiolus Pink Perfection, pink, 2', July. Gladiolus, Mrs. Francis King, flame, pink; Wistaria, pale lavender; Baron Hulet, violet blue, August, 2½'.

32. Achillea ptarmica fl. pl. The Pearl, 2', white; silvery foliage, June—July.

33. Cheiranthus Cheiri, Ellen Willmott, ruby red, 1', April—May.

34. Viola C. Wernig, dwarf, dark purple, May—September.

35. Althaea rosea, 7-9', pink, double; crimson, double, June—August.

36. Aconitum Napellus, Sparks variety, 5½', violet blue, July—August.

37. Chrysanthemum uliginosum, 5', white, September—October.

38. Anemone japonica Queen Charlotte, 2', pink, August—October.

39. Erynigium amethystinum, 3', blue-gray, July—August.

40. Dianthus barbatus, pink, crimson, 18", June—August.

41. Hibiscus, Crimson Eye, 4', crimson, June—August.

42. Monarda didyma Cambridge Scarlet, 3', July—September.

43. Astilbe Davidii, 5', crimson-purple, July—August.

44. Phlox paniculata Eclairer, 2', crimson lake, August—October.

45. Hyacinthus candicans, 4-5', white, August—September.

46. Peony, 3', Louis van Houtte, crimson, fragrant; Madame Calot pink; Eugene Verdier, pink, June.

47. Aquilegia Long Spurred Hybrids, 18", mixed colors, June—July.

48. Heuchera sanguinea, 18", scarlet, June—July.

49. Campanula carpatica, 1', blue, July.

50. Digitalis purpurea, 3-4', purple, June—July.

51. Delphinium, 4', June—September.

52. Campanula Medium, 3', white and blue, June—July.

53. Antirrhinum Defiance, russet red, Nelrose, pink, 18", June—October.

54. Dicentra (Dielytra) spectabilis, 2', bright rosy pink, May—July.

55. Dianthus plumarius Delicata, 8", white, May—June.

56. Campanula pyramidalis, 4-5', blue and white, July.

57. Aster Novi-Belgii St. Egwin, 5', soft pink, October.

58. Lobelia cardinalis, 3', crimson-scarlet, dark foliage, July—October.

59. Lilium candidum, 4-5', June—July, white.

60. Papaver nudicaule, 2-3', white, orange and yellow, May—September.

61. Hemerocallis Kwanso fl. pl. orange, 4', June—July.

62. Gaillardia, 2', red, orange margin, July—September.

63. Delphinium, 4-5', June—September.

64. Antirrhinum Orange Beauty, orange scarlet, 18", June—October.

65. Primula vulgaris polyantha, dwarf, mixed colors, April.

66. Rudbeckia Autumn Glory, 6', golden yellow, dark cone centre, August—October.

67. Lilium Henryi, 6', orange, August—September.

68. Hesperis, white, 2-3', May—July.

69. Chrysanthemum, 2½', Klondyke, yellow pom-pom; Bride of Kent, yellow single; September—October.

70. Gladiolus, War blood red; Crimson Glow, deep scarlet, 2', August—September.

71. Iris germanica, Bronze Beauty, Apollyon, bronze yellow, 2½", June.

72. Cheiranthus Cheiri Bronze King, 1', deep golden bronze, April—May.

73. Anemone coronaria St. Brigid, 1', scarlet, purple and white, mixed, May—June.

74. Althaea rosea, 7-9', maroon purple; yellow, July—October.

75. Anchusa italica Dropmore, 5', Gentian blue, June—August.

76. Lupinus polyphyllus, 4', yellow, May—September.

77. Scabiosa caucasica, 2', purple, July—September.

78. Antirrhinum Copper King, 3', June—October.

79. Cheiranthus Cheiri Redford Giant, yellow, 1', April—May.

80. Aquilegia Long Spurred Hybrids, 18", blue and yellow, June—July.

81. Campanula carpatica glomerata superba, 1', blue, July.

82. Gaillardia, 2', golden yellow, July—September.

83. Clematis Davidiana, 3', white, bushy, June—July.

84. Campanula persicifolia Telham Beauty, 4', blue, July.

85. Papaver orientale Mrs. Perry, 3', May—June.

86. Aster Novi-Belgii Climax, 5', lilac blue, October.

87. Digitalis grandiflora, 4', pale yellow, May—June.

88. Tiarella cordifolia, 6", white, April—May.

89. Viola gracilis, dwarf, yellow, April—September.

90. Anemone japonica Whirlwind, 3', white, August—October.

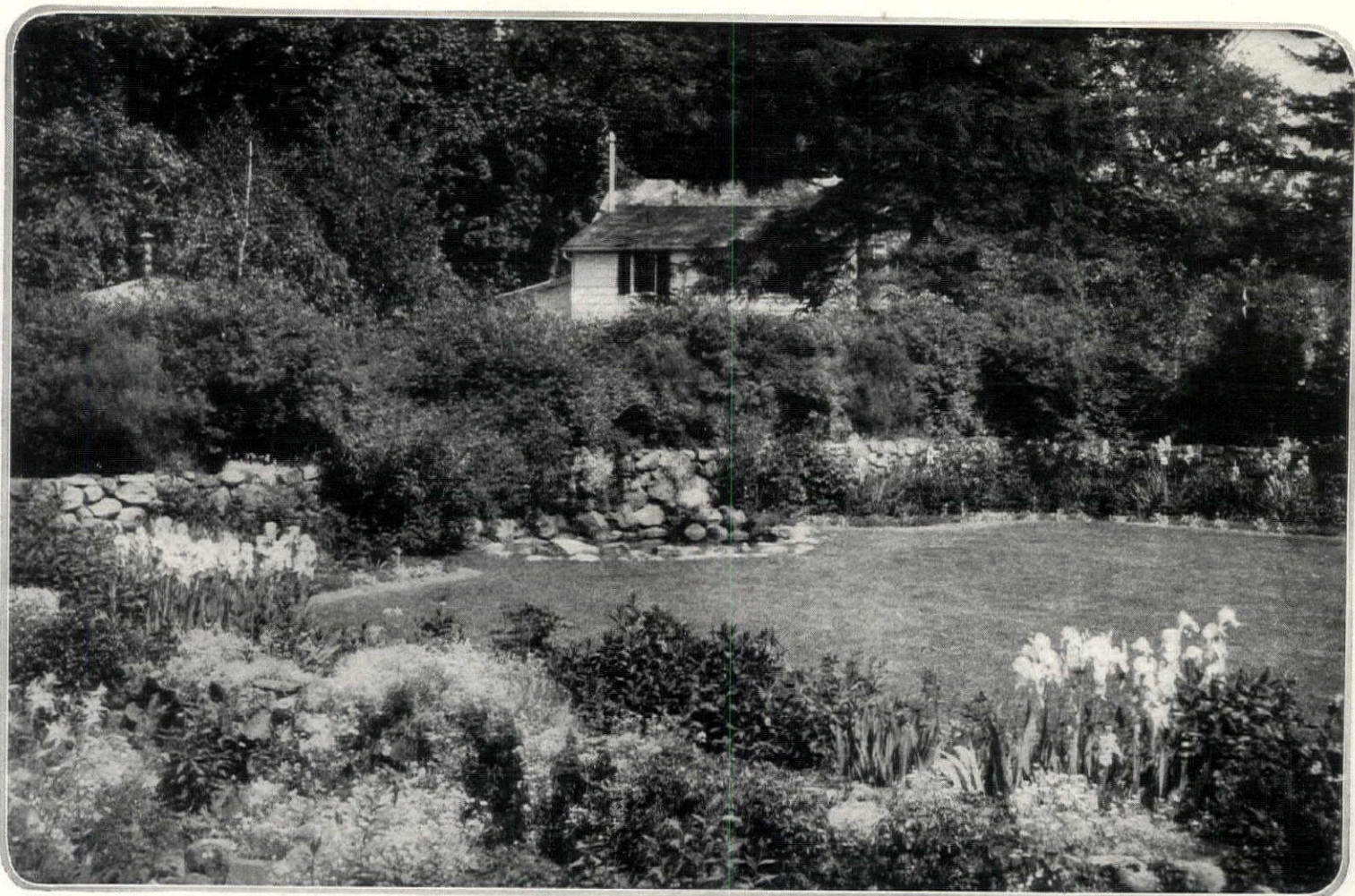
91. Antirrhinum Yellow King and White Queen, 2', June—October.

92. Iris Ingeborg, white; Empress, creamy yellow, 2', May.

93. Geum, 2', orange, June—July.

94. Viola, dwarf, mahogany, April—September.

95. Myosotis, lavender, 6", May—June.
-
- The plan shows suggestions for planting a border 80' long, giving a sequence of color from Spring until Autumn. Annuals and bulbs may be used to supplement the perennials, but should be chosen with regard to their color, height and flowering season
- Many of the Summer flowering plants may be encouraged to spread over the spaces left vacant by those of Spring. Wallflowers, for example, may be lifted to give more room for snapdragons, in their turn to be removed, when their flowering has finished
-



Perrett

The perennial border that contains a goodly quantity of light colored flowers, can be depended upon to give a gay effect. In the garden of Mrs. K. Walbridge, Short Hills, N. J., light colors have been effectively placed in the border

MAKING A PERENNIAL BORDER

*A Planting Plan Designed for Succession of Color
Is the Prime Essential*

THE planning of a long perennial border, or of any shaped herbaceous border, is a many-sided problem; its complexities are so intimately connected that as each in turn is faced, the others appear on every side and cannot be ignored. It is comparatively easy to work out a scheme of color in theory, to decide that blue shall be here, yellow there, and crimson elsewhere with judicious blendings of intermediate shades. But practical knowledge and experience must translate these decisions into plants and varieties. The actual colors and their association are largely a question of personal taste, but to obtain them as imagination sees them involves a knowledge of flowering seasons, of heights and shapes and manner of growth, not to mention the subtleties of hue unrevealed by the catalogue and dictionary.

Many of the flowers which make up the border, considered individually, may well claim to deserve a special bed or garden for themselves where their full perfection of beauty can be revealed; peonies, irises, lupins, phloxes, and many others are of this number, but since few people have space

for these ideal conditions there is compensation in the many beautiful effects which can be made by combining flowers of different type and habit apart from the mere question of color. The feathery plumes of spiraea make an ideal background for the velvety spires of a dark crimson snapdragon or the clear cut outline of an iris. The gray blue austerity of the globe thistle in contrast with the narrow downy foliage and intense carmine flowers of the rose campion, the clear color and fragile petals of long stemmed poppies—an infinity of variations can be suggested. In fact it is impossible to attempt color grouping successfully and to neglect this important aspect. (The effectiveness of plants both for color and form at long and short range was dealt with in a previous article.)

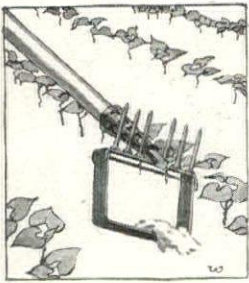
It is not difficult in a long border to have something in flower through most of the garden, but it requires more skill to contrive that this shall be no mere spasmodic patchwork but a regular sequence of color throughout the border. Some people find it simplest to concentrate upon certain seasons, and are content to wait through a

quiet interim between one brilliant display, say in early summer and another in the autumn. But a more ambitious gardener will aim at a continuous effect, which needs more thought and perhaps some sacrifice of brilliance. Large masses of one plant will be more difficult to handle, as the problem must be faced of the correspondingly large area of barren stem when the flowers are over. This difficulty must not be shirked for it is perhaps hardly necessary to state that broad masses should always be planted rather than single specimens. Plants with fine foliage, small evergreens and gray-leaved plants, these are always useful as they give value to gayer plants. Bulbs may be used in numbers; they can be lifted after flowering to ripen their leaves elsewhere and their places filled by annuals or half-hardy plants held in readiness for the time when they are needed. A pinch of seed of some flower which will not bear transplanting—such as nigella and shirley poppies—may be sown in a small vacant spot, where, as the surrounding flowers die down, the seedlings will have room to

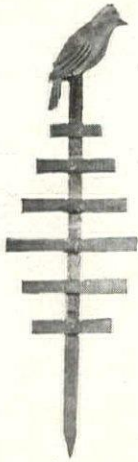
• (Continued on page 146)

SEEN IN THE SHOPS FOR THE GARDEN

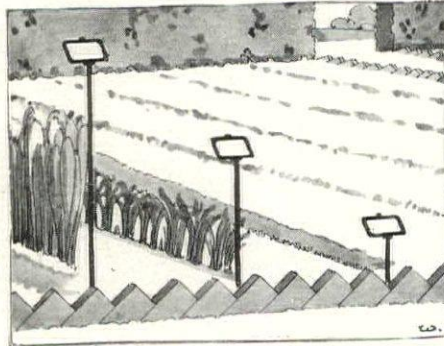
And to be purchased through the
House & Garden Shopping Service
19 West 44th Street, New York City



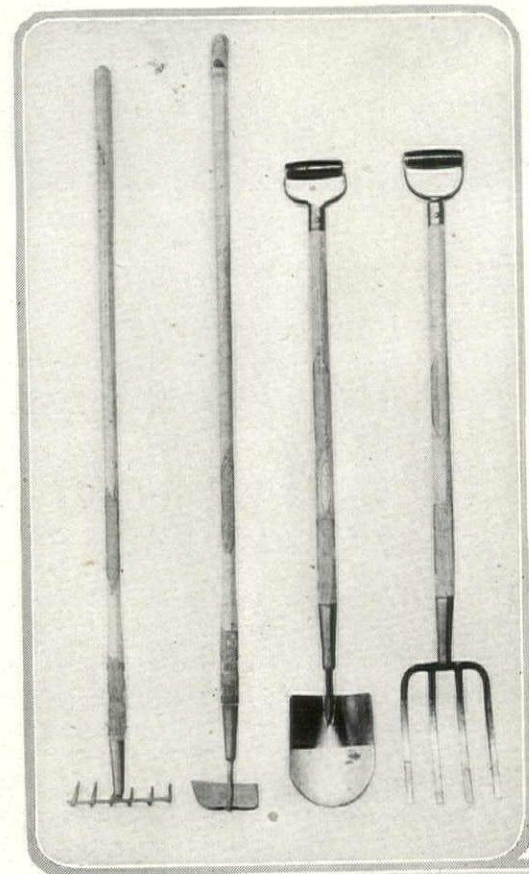
Combination hoe and rake, an ideal tool for the average garden. 6' hardwood handle, 6" double edged steel rocker blade \$1.25



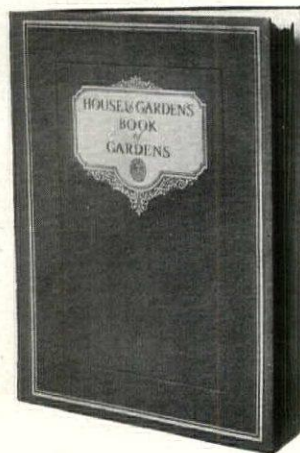
An amusing wooden trellis painted green has a bluebird on top. It is 34" high. The price is \$1.75



Plant markers with japanned steel frames and labels protected by transparent celluloid sheets come 24" high, card 1½" x 2¾" for 25¢ each. \$2.50 a dozen



Above is a well-made set of ladies' garden tools priced at \$3.50 for the set

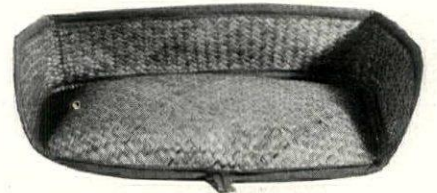


All types of gardens, plans and planting lists are to be found in House & Garden's Book of Gardens, \$5

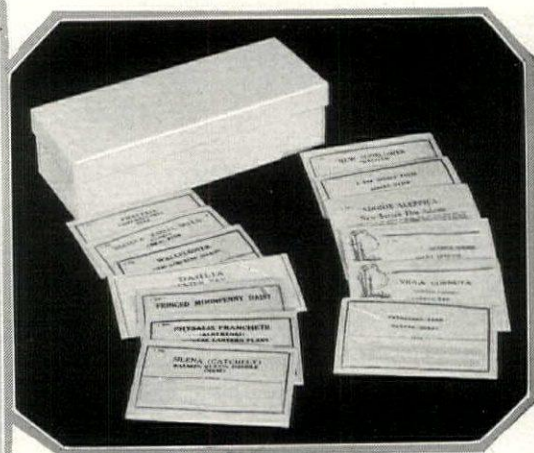
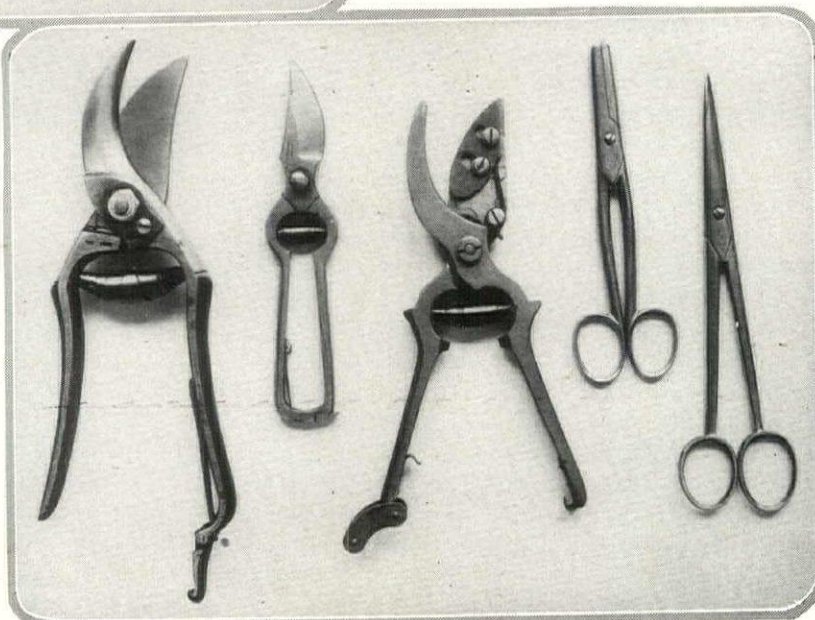
A kneeling pad of strong rush with the bottom protected by oilcloth is \$1.50. It is 14" long



(Above) Garden apron 33" long of unbleached muslin with appliqué flowers and pockets of checked gingham \$3.50. Trowel with saw tooth edge 60c. Painted wooden butterfly to stick among flowers 75c.



A collection of twelve novelties of the season, one packet of each, may be purchased for \$5

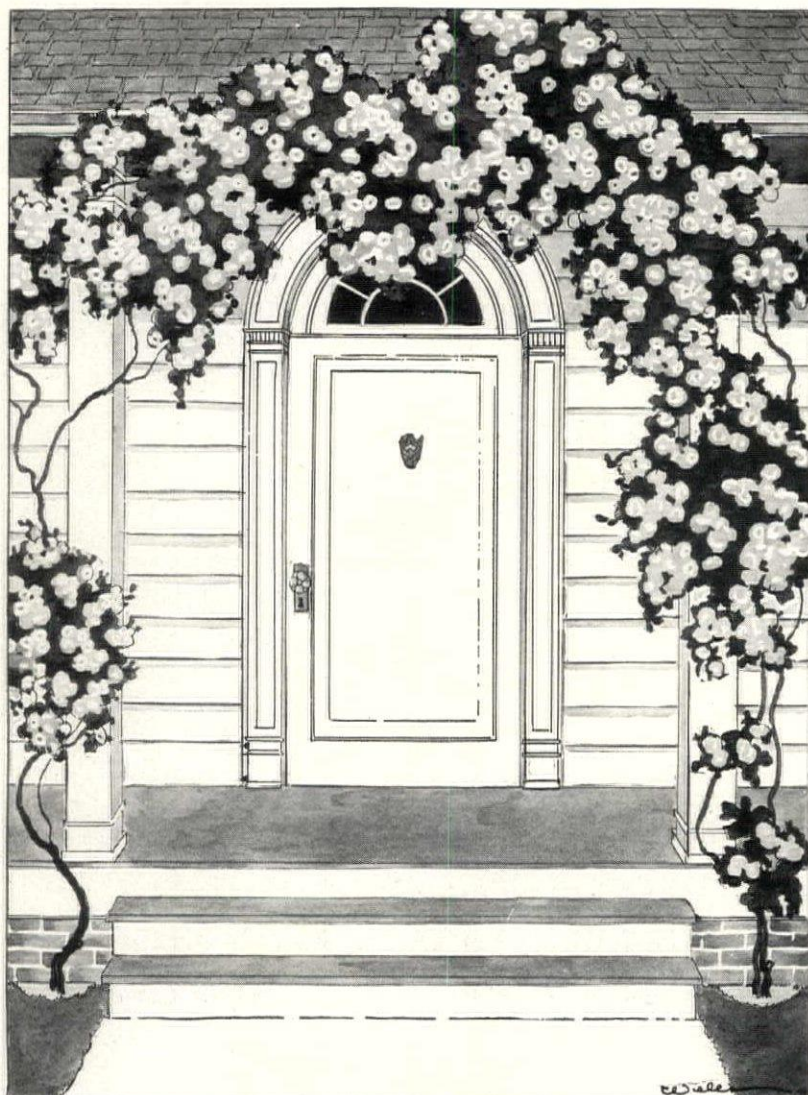


(Left) Pruning shears for all garden work \$4; pruning and rose shears, \$1.50; to prune roses and shrubs \$5; shears to cut and hold flower \$2.75; flower scissors \$2

FLOWERS TO BLOOM THIS SUMMER

All the Collections on This Page
May Be Purchased Through the
House & Garden Shopping
Service, 19 West 44th Street,
New York City

Four varieties of climbing
roses, American Pillar, Climb-
ing American Beauty, Lady
Gay and Silver Moon, \$4.50.
2 yr. field grown plants



A BLUE AND WHITE GARDEN

Blue African Daisy; Agera-
tum; Anchusa Capensis or
Summer Forget-me-not;
Baby's Breath; Centaurea
Oderata; Blue Larkspur,
White Lupins; Blue and white
Nigella; Pansy, Adonis; Petu-
nia, Norma; Poppy, White
Swan; Scabiosa, Azure Fairy;
Shirley Poppy, Blue-Bell;
Queen Anne's Blue Lace
Flower—14 Packets \$1.50

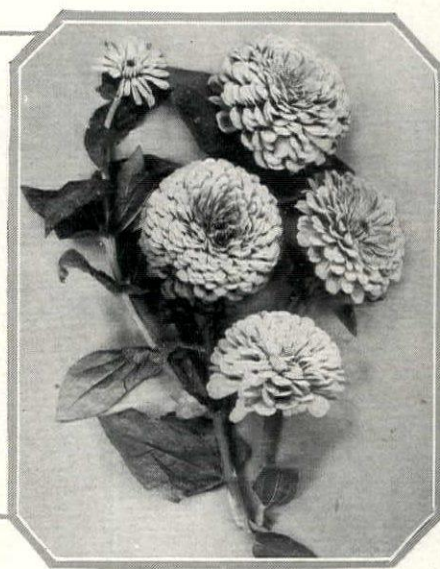
A PINK GARDEN

Cosmos, Giant Pink; Califor-
nia Poppy, Rose Queen;
Godetia, Rosy Morn; Cen-
taurea, Favorita; Gypsophial,
Mist of Roses; Clarkia, Apple
Blossom; Candytuft, Rose
Cardinal; Larkspur, Lustrous
Rose; Lupins, Flamingo; Shir-
ley Poppy, Wild Rose; Petu-
nia, Rosy Morn; Sweet Peas,
Hercules; Zinnia, Rose King;
Antirrhinum, Pink Beauty—
14 Packets \$1.50

(Center) Make your garden
glow with roses next June.
Six distinct varieties, two year
old, low budded, field grown
plants may be had for \$5



(Above) Five dahlias, Latonia,
buff Decorative; Bianca, lav-
ender Hybrid Cactus; Os-
samequin, yellow and red
Peony-flowered; Nancy Ran-
kin, white Decorative; Miss
Lymena T. Baxter, yellow
Peony-flowered, may be pur-
chased for \$5



(Above) A collection of giant
double flowered zinnias rang-
ing in color from light rose,
through the apricot and
orange shades to deep red is
\$5 for 12 packets

The pastel tones of sweet peas
make them a welcome addi-
tion to any garden. Twenty
varieties, in harmonious color
combination are priced at \$1



Gladioli if planted from April
to July will bloom until frost.
A collection of fifty bulbs
covering practically every
shade may be purchased for \$2

The GARDENER'S CALENDAR for MARCH



FRANCIS BACON

"For March", says Bacon, in the essay on the art of landscape gardening in which he exhorts "There ought to be gardens for all months of the year, in which, severally, things of beauty may be in season. . . . In March there come violets, especially the single blue, which are the earliest, the yellow daffodil, the daisy, the almond-tree in blossom, the cornelian tree in blossom, sweetbrier."



HENRY WOTTON

A sensitive garden criticism is this of Wotton's, the author of that splendid treatise, "The Elements of Architecture": "He did so precisely examine the tinctures and seasons of his flowers that in their settings, the inwardness of which that were to come up at the same time, should be always a little darker than the outmost and so serve them for a kind of gentle shadow, like a piece not of Nature but of Art."



SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY

This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given are, of course, for an average season.

I dream'd that as I wander'd by the way Bare Winter suddenly was changed to Spring, And gentle odours led my steps astray, Mix'd with a sound of waters murmuring. SHELLEY.

1. If you are considering new lawns this spring get the ground ready for seeding just as soon as it can be worked. Early sowings will prove to be much freer of weeds than those which are made during the summer months.

2. Chrysanthemums for next fall must be propagated now. If the space is available it is good practice to put in a batch of cuttings every four weeks until June to assure a long period of bloom well into the autumn.

3. Rhubarb should now be showing some growth. Barrels placed over the plants will give earlier and better stalks. Beds that were not mulched should have a good application of manure dug into them at about this time.



JOHN EVELYN

In the introduction to his famous *Kalendarium Hortense*, Evelyn issues this quaint warning: "As Paradise (though of Gods own Planting) was no longer Paradise, than the Man put into it continued to dress it and to keep it; so, now will our gardens (as near as we can contrive them to the resemblance of that blessed Abode) remain long in their perfection, unless they are also continually cultivated."

4. Boards, straw, burlap, cornstalks and other winter covering materials for box-wood and such tender plants must be removed now. If possible, select dull, cloudy weather for carrying on this important operation.

5. Changes of all kinds where the moving of plants, sods, hedges, etc., is involved must be carried into execution at once. This also applies to garden walks which, if altered in early spring, settle by summer, becoming permanent.

6. All new plantings of hardy stock must be set out. The earlier in the planting season this is done the less losses you will have. Just as soon as the frost leaves the ground is the proper time for work of this sort.

7. If you have not already planted trees, seeds of cabbage, cauliflower, celery, parsley, lettuce, tomatoes, egg-plant, peppers, leek and onions should be sown. See page 47 for detailed information on this work.

8. All the exotic plants, such as kentias, dracaenas, cacti, arecas, etc., should be re-potted at this time. Use pots about 1 inch larger than the plants now occupy. The soil must be light, containing plenty of leaf mold.

9. Where absolutely necessary, bay trees, hydrangeas and other ornamental plants should be re-tubbed. Others can be re-fertilized by digging out some of the old soil with a trowel and filling in with a rich, fresh mixture.

10. Asparagus is one vegetable that starts growth very early, so dig the winter mulch under now, hill up the rows on the old plantings, and apply salt liberally to the bed. New plantings should be started now from good roots.

11. All the necessary pruning must be attended to now. Foliage trees and shrubs, all the flowering types that blossom on the terminals of the new growth, such as roses and fruit of all kinds, require attention.

12. Make a habit of heeling in your nursery stock the instant it arrives. Stock that is allowed to lie around in the wind and sun is certain to show heavy losses, because its roots will be dried out and the smaller ones will die.

13. Cuttings of all the various types of bedding plants should be started in sand in the greenhouse early this month. Coleus, geraniums, lantana, heliotrope, etc., are some which come under this heading.

14. Cannas, especially the newer or better types, should be divided by cutting the eyes separately. They can then be rooted by placing in sharp sand, or they may be potted up in a very light soil mixture if you prefer.

15. Sowing of all the more common types of annual flowers should be attended to now. Asters, zinnias, calendula, balsams, salvia, marigold, scabiosa, pansies, stocks, etc., are some of the many varieties that may be planted.

16. Any changes in old plantings or new plants contemplated for the perennial border should be finished up at the earliest moment. Those which are planted early in the season will flower late this coming summer.

17. Better make arrangements now to use your greenhouse for some useful purpose this summer. Potted fruits, chrysanthemums, melons, English forcing cucumbers, etc., are some of the many possible products.

18. Have you everything in readiness for the opening of the big garden drive next month? Seeds, garden line, plant labels, measuring stick, pen brush, bean poles and tomato supports are a few essentials.

19. This is the time to think of flowers for next winter in the greenhouse. Primula or Oboeonia type, cyclamen and anthurium are three of the best sorts. They should be started from seed now under glass.

20. The covering on the strawberries should be removed and burned and the manure mulch can be dug under. In cases where for some reason no fall mulch was applied the bed should be well manured and dug in.

21. Before the buds burst on the deciduous trees and shrubs, the whole growth should be looked over carefully for any caterpillar nests, which can easily be destroyed by burning without injuring the plants.

22. All the various garden tools will soon be in use regularly. Are they in proper condition? Good work is impossible with rusty or dull tools. Go over all the implements, removing any rust and sharpening the cutting edges.

23. The top protection on the rose bushes can now be removed; dig the winter mulch of manure well under. A liberal application of bone meal to the soil will produce worthwhile results during the flowering season this year.

24. Small fruits of the different types can be planted now. Grapes, raspberries, blackberries, etc., can be trained on wire trellises, or stakes may be used. The latter are neater and more economical of space.



HORACE WALPOLE

When Walpole wrote his essay on the *Modern Taste in Gardening*, the modern taste in gardening was being formed by a rabid designer of extreme naturalistic tendencies, called "Capability" Brown. England is still repairing the ravages wrought by this influential landscape gardener. But the literary record of that era left by Walpole is as delightful reading as it is an interesting account.

25. Specimen trees of all types that are not growing satisfactorily can be invigorated by cutting a trench entirely around the tree about four feet from the trunk and filling it in with good rich earth well tamped down.

26. Most of the diseases to which potatoes are heir are caused by dry, hot weather. Potatoes like cool, moist soil. Prepare a piece of ground and plant them now, or as soon as the soil can be worked. An early start makes success.

27. Mulches of all kinds applied to shrubbery borders, perennial plantings, flower beds, etc., should be dug under. In doing this, get the manure as deep as possible and see that it is thoroughly incorporated with the soil.

28. Sweet peas may be sown out of doors now. Dig trenches about two feet deep and the width of a spade. Fill the trench with good top soil and manure well mixed and sow the seed about two inches below the surface.

29. All trees and shrubs that are subject to attacks of San Jose scale should be sprayed with one of the soluble oil mixtures before the buds swell. At least forty-eight hours are needed to smother these pests.

30. Manure applied to lawns last fall must now be raked up. All lawns should be raked clean and rolled or tamped. A top dressing of woodashes and bone meal will help to produce a good vigorous growth of grass.

31. All the best varieties of dahlia roots should be started into growth so that cuttings can be made of those desired. If the roots are laid upon a few inches of sand and watered freely they will soon start into growth.

The backside of the house was neither field, garden, nor orchard; or, rather, it was both field, garden, and orchard; for as soon as the descending of the stairs delivered they came into a place curiously set with trees of the most taste pleasing fruits; but scarcely had they taken that into their consideration but that they were suddenly stepped into a delicate green; on each side of the green a thicket, and behind the thickets again new beds of flowers which being under the trees, the trees were to them a pavilion, and they to the trees a mosaical floor, so that it seemed that Art therein would needs be delightful by counterfeiting his enemy, Error, and making order in confusion. In the midst of all the place was a fair pond, whose shaking crystal was a perfect mirror to all the other beauties, so that it bare show of two gardens; one in deed and the other in shadows; and in one of the thickets was a fine fountain.

(From ARCADIA, by Sir Philip Sidney.)

PLINY, THE ELDER

Caius Plinius Secundus, who lived from 23 to 79 A. D., is famous primarily for his *Natural History*, but his descriptions of his villas and gardens at Rome and in Tuscany are extremely valuable records of the art of garden design at the time when the Roman Empire was at the height of its splendor and gardening a product of the lavish period.

Sir Philip Sidney, like many of the English men of letters in the 17th Century, wrote much on the art of gardening. Most of the portraits used in the *Gardener's Calendar* have been reproduced from plates in rare volumes long out of print.



PHILIP SIDNEY

of Walpole from L. B. Seeley's "Life," the Grotier Press, London. Reproductions were made through the courtesy of New York Public Library.

EDGAR ALLEN POE

Readers of the poetry, the criticisms, the essays and the lurid tales of Poe should know his fantastic essay on *The Landscape Garden*. Among its imaginative flights there is a display of interesting and accurate knowledge of landscape design, of the effects which might be obtained on a truly grand scale if only the matter of expense were not an item.

That of Wotton is from a biography by Logan Pearsall Smith, Oxford University Press, and that of Walpole from L. B. Seeley's "Life," the Grotier Press, London. Reproductions were made through the courtesy of New York Public Library.





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COMMUNITY GARDENS

(Continued from page 79)

Mrs. Lawrence Keene illustrated here.

It is always advisable to build an ornamental screen or wall to separate the rear of each house from the common yard and to mark the beginning of the individual garden space. This wall or screen should come out beyond the buildings as a buttress. Make it anything you desire—a fence, a wall, a trellis. It should be at least 7' high and project into the gardens 6' or 7'. This is the first step towards preserving one's individuality in a community garden. Such a separating screen or wall may be topped with an ornamental motif of iron work, sculpture, a flower box planting, or one or more pottery tubs from which vines are permitted to trail.

In the photographs of Goring Court, a community garden in London, you will see that they have dispensed entirely with the separate terrace idea. On practically each one of these houses the owners have built an extension the entire width of the house one story high. They have used it as a garden room with a wide window running nearly the width of the extension. On the top of this first story is a roof garden, with a low wall sufficiently high to screen the occupants of the terrace from the neighbors. These are equipped with awnings and are furnished with comfortable wicker chairs suitable for outdoor use.

Around the edge of the court is a planting of flowering shrubs, in front of which are bright colored perennials and annuals, in the centre of the grass plot, a fountain with an oblong pool.

An excellent community garden is found in Sutton Place, New York City, that remarkable residential area which is part of the recent East Side develop-



The community space in Sutton Place consists of a broad stretch of lawn. A flagged path runs along the edge of the river terrace, with a wrought iron fence protecting the bluff

ment consequent on the usurpation of 5th Avenue by shops.

Each of these houses has turned its back on the street and faces the view. The view in this instance is a stretch of the East River, Blackwell's Island, the huge span of the Queensboro Bridge, and the ultimate reaches of the city to the eastward. These gardens have been arranged as if the river was a stage and the houses and their terraces the seats in a theatre. For indeed the river is a stage, with its constant trafficking of

boats and the bridge is a supplementary stage, with its procession of cars and pedestrians high in air.

As the embankment takes practically a sheer drop at this point, there is no opportunity for terraces leading down to the water's edge. The common garden is simply a large flat terrace.

The illustrations show how the Common garden may be enjoyed and still maintain the required element of privacy, for each house has a terrace with an iron railing and gate. In one

house, the residence of Miss Marbury, and Miss de Wolfe, the terrace is one step below the garden proper, and is paved with red tile. The furniture is of wicker painted green. Hanging baskets of ivy and evergreens, suspended from the awning frame, give a cheerful effect in winter. A narrow bed outside the fence and between the line of grass and stepping stones, is planted with bright flowers.

The house next door, the residence of Miss Isabelle Camman, is treated in a slightly different manner. A brick wall encloses this brick terrace, and a simple picket gate leads into the common garden. The wall is decorated with bright pots of earthen ware planted in winter with evergreen, and in summer with pink geraniums. This terrace has iron furniture painted bright blue.

The home of Mrs. Lorillard Camman has been given a different treatment. Here the dining room or garden room is on a higher level. The kitchen is below the dining room and carefully screened from the community garden by a clever ornamental trellis.

Further on in this group is still another type, Mrs. W. K. Vanderbilt's house, whose terrace is on a higher level than the others, and whose steps lead directly down into the garden.

This entire group of houses have been so planned that their dining rooms face the river view. All the windows are long and open directly upon the terrace, which in summer enables these gardens to be virtually open air rooms.

The center of the common garden is of grass and in front of each house and around the edge of the space, is a path of stepping stones, sunk in the grass. Several large, fine old trees are in the center of this plot.

A VILLA of the ITALIAN RENAISSANCE

(Continued from page 65)

the purpose of the designer.

What a surprise it is, after wandering along the informal path that seems to lead aimlessly through the flower carpeted chestnut grove, to burst suddenly upon the vista of a sparkling cascade guarded by grotesque river gods. It is very theatrical, that first glimpse of the garden picture, framed for us like a stage setting, at the end of a deep shaded avenue of Scotch fir. Perhaps this offers an explanation for the unusual location; the Italians of the Renaissance were not unaware of the value of a theatrical element in gardening. The setting is complete; it is a scene of Veronese sumptuousness, even to the warm glow of color that must recall the rich paintings of the Old Masters. The actors alone are lacking, but in our imagination we can recall the gorgeous dames and cavaliers who once gave life to these scenes. Of that scene, a contemporary writer, Tomasetti, says, "You must imagine the rich display of garments and of military uniforms, next to the pompous ladies of crinoline with richly plumed and powdered wigs, the haughty procession of the Cardinal and Prelate, the permeating melody of the gavotte and minuet echoing through the shady avenues and flower grown walks, the murmur of gossips and the prattling of the ladies, of gallants and cavaliers; murmurs often briskly interrupted by the crackle of laughter from everyone, caused by an unexpected spurt from a treacherous 'water sur-

prise' that reduced ladies and cavaliers alike to the level of geese without respect for age or station. It was an age of real fickleness, of costume display and of fantastic elegance, and although we are obliged to deplore it, we must remember how interesting and inimitable it was in art, in poetry and prose so characteristic and full of never-to-be-forgotten allurements."

But in an analysis of Italian gardens of the 16th or 17th Century, the peculiarities of the Italian climate as well as different economic and social conditions must be considered. This sympathetic climate makes possible economy in construction that has given a characteristic boldness of scale. To be able to mold gardens out of the native hillside by cutting here and retaining there, to

merge ramps, terraces and grottos into the existing topography rather than superimpose them, like a bark on the crest of a wave, is an opportunity that has given the Italian Villa half its genius. This genius is nowhere better illustrated than at Caprarola.

The garden which, in this case corresponds to the immediate surroundings of the average residence, is built up in our different levels, each one opening out at some point on the hillside. It is so a part of its surroundings that one is not conscious of ascending a rather steep slope although the ramps and steps are very considerable. The difference in level has been made the opportunity for the creation of a garden picture that, far from discouraging one with a wearying climb, leads on from one fascinating feature to another until, quite unconsciously, one arrives at the climax, the Casino.

The Casino, the focal point of the gardens, as beautiful as it is simple, is a masterpiece of garden architecture; perfect in proportion, refined in detail and admirably suited to its purpose. Its charm has been recognized by pilgrim students for generations, and the frescoes which adorn its loggias have covered the pages of many books. Yet the greatest lesson it has to teach seems still unlearned; without the Casino, the gardens would be meaningless and incomplete, while without the gardens, the design of the Casino would be

(Continued on page 94)



In the rear of the Casino the space is divided into elaborate box parterres, surrounded by a low wall guarded by the caryatides. A strip of mosaic pavement forms an approach to the terminal gate

~ VERSAILLES ~ COLFAX ~ GRISWOLD ~ EDGEWORTH ~ FAIRFAX ~ MYTHOLOGIQUE ~

~ OLD LONDON ~ LENOX ~ PLYMOUTH ~ OLD FRENCH ~ LANSDOWNE ~ CHATHAM ~ MADAM JUMEL ~ KING ALBERT ~

ETRUSCAN ~ FANSHAWE ~ LADY BALTIMORE ~ ADAM ~ JENNY LIND ~ CLERMONT ~ MANDARIN ~ PORTSMOUTH ~

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A Villa of the Italian Renaissance

(Continued from page 92)

pointless and unpleasant—the one is as essential to the other as the column is to the arch it supports.

In our first glimpse of the upper gardens the Casino seems to rest superbly on the shoulders of the colossal river gods who keep stern watch over all intruders from the outside world. The approach seems to have been designed with this perspective picture clearly in view, even the penetrations in the arched ceiling of the loggia have been purposely slanted to give the full benefit of the colorful arabesques of the brothers Zuccari. On entering the garden one first passes two grotesque figures, Silence and Penitence, who from their lofty pedestals give warning for one's behavior, while from the base of the first turquoise pool a fat grinning mask blubbers and sputters a jollier welcome. Once gathered within the outstretched arms of the lower court, the two flanking pavilions offer an opportunity for the creation of a garden before ascending to the higher terraces. But one's curiosity is aroused by the rippling of the water down the long cascade and there is a desire to see what may be beyond those formidable giants at the top of the ramp. A chain of dolphins, long and beautifully chiselled, directing in playful lines the course of the water down a narrow ramp, is so fascinating that the second level is gained while one is unconscious of the many slope steps. On either side are walls retaining the natural contour through which the ramp is cut on an easier grade—high walls, simply treated with paneling, niches and cornice, giving a sense of enclosure and an added force to the perspective picture.

THE SECOND LEVEL

The second level, an oval grotto-like enclosure with curved stair ramps ascending on either side, echoes the splash of many fountains. Fountain masks appear from every recess, formed by the coarse rustication of the walls, and pour their songs of merriment or tragedy into the shell-like basins and vases. The giants, who superintend all this intricate play of water, are now gruesomely out of scale; they were meant to be seen in perspective view and not judged as works of art at close range. From their cornucopias spurt two streams of water that cross the jet from the vase below in a form that crudely symbolizes a Farnese Fleur-de-lis, a conceit that must have appealed even to a proud Cardinal.

In every niche and crevice where a little soil can lodge or moisture can be sucked from the thick masonry, a green plant takes root and whether a maiden-hair fern around a fountain or common weed struggling for life along the cornice, it adds a living touch and relieves the curse of unrelenting architecture. Even in one season walls are covered with soft grey-green lichens and golden sporophytes and in the damper places are velvety green spots of moss. A luxuriant growth of vines overhanging cornices and ascending walls blends sky with masonry and masonry with earth, so that even the most confirmed naturalist would admit its perfection.

By ascending one of the ramps that swings up from either side one finds himself at the center of the great parterre that forms the third and most important garden level. Just in front is the Casino, rising two stories in height, banked against a fourth and higher terrace. It is set in the midst of a formal parterre of box hedging and turf alleys retained at a perfect

level and in rectangular form by a surrounding wall. The walls above the level of the ground take the form of seats surmounted at regular intervals by colossal caryatides, who, unconscious of the burdening vases on their tireless heads, grin and grimace at each other and those who loiter beneath their kindly protection. Sixteen feet in height, more than twice life size, they command the garden and even rival for supremacy the lofty chestnut and cypress trees under whose shade they stand. They are coarse in material, vigorous in carving and playful in conception, showing perhaps more craftsmanship than art, but undeniably fitted for the function they perform. Most of the sculptural ornament of the garden is obviously designed for that particular situation, and once removed from its setting would lose most of its charm.

THE PARTERRE

To judge the full effect of the parterre one must ascend to the highest level, the level of the loggia from which the boxwood pattern was intended to count as a carpet design upon which was displayed, during the hours of evening light, the pageantry of Renaissance life. The ascent is made by ramps that start from the rear outer corners of the parterre and rise toward the Casino along the wall that retains the upper level. At the foot of the ramp are gates that lead out into the depths of the surrounding chestnut grove or of the fertile vineyards. Here too is the same wealth of sculptural ornament and play of water that distinguishes this garden. Chubby dolphins alternated with shallow bowls, in step-like fashion along the outer edge of the ramp, relay the water from one to another until it reaches its lowest level.

Having gained the fourth and highest terrace one is at the rear of the Casino, the backyard or more intimate part of the scheme. A broad panel of turf, constrained to agreeable proportions by retaining walls, is simply accented by two flat lateral fountain bowls and a very beautiful marble fountain on the axis of the Casino. There has been a gradual refinement of scale and ornament as one approaches the Casino until, in this most exquisite fountain, there is a climax of beautiful proportion and detail. Its position is made all the more effective by a strip of mosaic paving, laid like an Oriental rug on the soft green of the turf, forming a regal approach to the flower terraces and terminal gate beyond. Great use of this pebble mosaic, or Mosaic Veneziano, has been made in laying an interesting pattern over the most used lines of circulation. The Farnese Fleur-de-lis has not only decorated pedestals, fountains and cornices, but has literally been made to cover the earth in pebbles of dark touchstone silhouetted against a pure white background of silicate.

Before entering the Casino a glance must be given to the flower gardens that rise in three low terraces on either side of the turf alley which leads to the rear gateway. They are almost in total ruins now, but the few fragments that still remain intact suggest the splendor that once was there. In no other part of the garden could the life that Tom-masetti so perfectly depicted be more aptly set. Here on these sculptured terraces, richly scented with odor of flowers and sweet herbs, gaily colored

(Continued on page 96)

STANDARD OF THE WORLD CADILLAC



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Catalogue sent on request
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A Villa of the Italian Renaissance

(Continued from page 94)

with roses and iris, one can picture silks and satins, brocade and crinoline not incongruous with this more sophisticated nature. Returning to the central avenue, one may wander through the hemicycle of pylons, which forms the terminal gateway, either to the "Porta dei Gigli" which leads out of the property by a side road or along the path to the right which meanders through the woods back to the main palace.

But the Casino still demands attention. It may be entered either from the parterre garden where one proceeds to the main floor by a winding flight of stairs or from the upper level directly into one of the two loggias, which occupy nearly half the area of the Casino and extend almost from front to back with only a narrow passage between. In this narrow passage is a double stairway leading to the servant's loft overhead and the loggia below. Opposite the stairway is a tiny chapel once decorated, according to tradition, with a "Descent from the Cross" by Guido Reni. The entire purpose of the Casino seems to have been centered in the loggias on which the gardens focus and the most beautiful decorations are lavished. The rooms on either side seem to have had an incidental function; they are devoid of decoration. The façade, once decorated by sgraffito designs, is now grim enough; but, still beautiful, it is a tribute to the old rule that good proportion may be enhanced by fine decoration, but no amount of fine decoration can atone for bad proportion.

The delicacy of Vignola's proportions and the fitness of the Zuccari frescoes created an open air salon that must have inspired many a noble gathering and many a gay banquet. What must have been the satisfaction of Cardinal Odoardo to watch during the long evening hours from his exalted loggia the promenading of his favorites!

Odoardo lived but a few years to enjoy his "Villa Deliziosa" after its completion, but, according to the documents of the time, he added a new lustre and value to the Caprarola Tradition. Certainly, in order that the prestige of the Farnese dynasty should

not diminish it was necessary that each successor should inherit not only the title but the wisdom of Paul III. or Cardinal Alessandro. Unfortunately this could not be; through the tyrannical and ambitious character of the later Farneses the family fortune was soon exhausted and their influence lost. With the death of Alessandro Farnese in 1731 the male line became extinct and the Villa Caprarola was left to his niece, Elisabetta, whose marriage to King Philip V of Spain and Naples, transferred the Farnese possessions to the house of Bourbon, in whose possession the property still remains. Caprarola enjoyed a brief hundred years of supremacy but during that century of magnificent life was created one of the richest traditions of the Golden Age. The palace and gardens were still the scene of brilliant functions until 1775 and even in 1841 Gregory XVI paid a brief visit. But in the declining days there was a touch of pathos even in those occasional revivals of camouflage splendor.

It should be significant to students of this day, that in Caprarola, the superb garden creation of Vignola, as well as in his other garden plans, the Villa Papa Giulio in Rome and the Villa Lante at Bagnaia, is found only the adaptation of his classic training to the solution of his particular problem. He was confronted with a tremendous problem and it is to his great credit that, although a thorough student of classic art, he was still capable of interpreting his marvelous discoveries in a way truly expressive of his own generation.

The day of Caprarola has passed. Our social and economic life has undergone a change comparable to the dark ages; we cannot now hope to build so pretentiously, careless of cost, with beauty our only consideration, but the tradition of Caprarola—originality of scheme, fitness to purpose, unity of conception, harmony with natural conditions and perfection of detail and proportion—should be an everlasting inspiration to those who would build beautifully.

Bringing the Country to Town

(Continued from page 73)

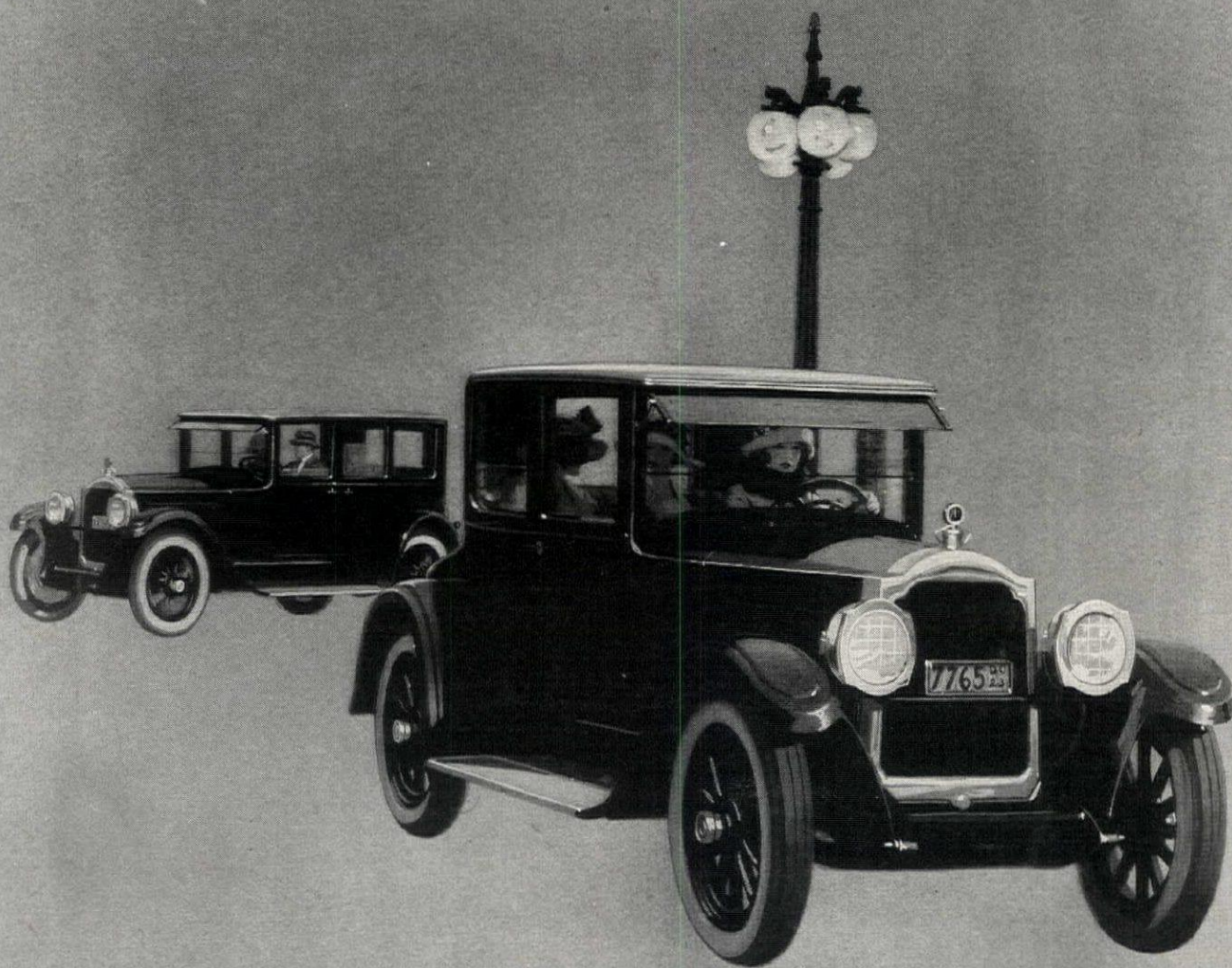
Nothing gives the illusion of having brought the country to town like a flowered wall paper. The sketch on page 72 shows walls covered in a paper copied from an old Chinese Chippendale design. It has an apple green background with birds, flowers and butterflies in every pleasant color imaginable. As this is the most decorative feature of the room, it should be played up to and emphasized. Curtains of some brilliant fabric covered with design would be quite out of place against such a gay background. Hangings and furniture coverings in a room with a flowered wall paper should tone in with the background of the paper and not count for much in themselves. This does not mean that the room need be lacking in color interest, for such incidentals as lamp shades, sofa cushions, a bit of porcelain here and there, perhaps a vivid little red lacquer table by a sofa can be counted on to give the varied color tones.

In striking contrast to these rooms is the little Victorian morning room

sketched on page 73. The main characteristic of an interior of this kind is a certain old-world charm and quaintness. Here the walls are very pale green, exactly the right shade for the amusing chandelier of calla lilies and leaves made of green and white Bristol glass. The note of green is repeated in the upholstery of the mahogany chairs, a soft brocade of small design. In front of the window stands an old spinet that has a certain decorative quality apart from its quaintness.

When planning a morning room give yourself to your tastes. This room belongs to you. Here should be your favorite books and the colors most expressive of you. Let the rest of the family put the things their hearts long for elsewhere. This room is yours. Make it charming and informal and above all gay. If it is in a city house or apartment try and give it the atmosphere of a country house living room. Above all let it have the appearance of being lived in.

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In addition to its other fine qualities, it is doubtful if there has ever been a car which handles with the delightful ease that characterizes the Packard.

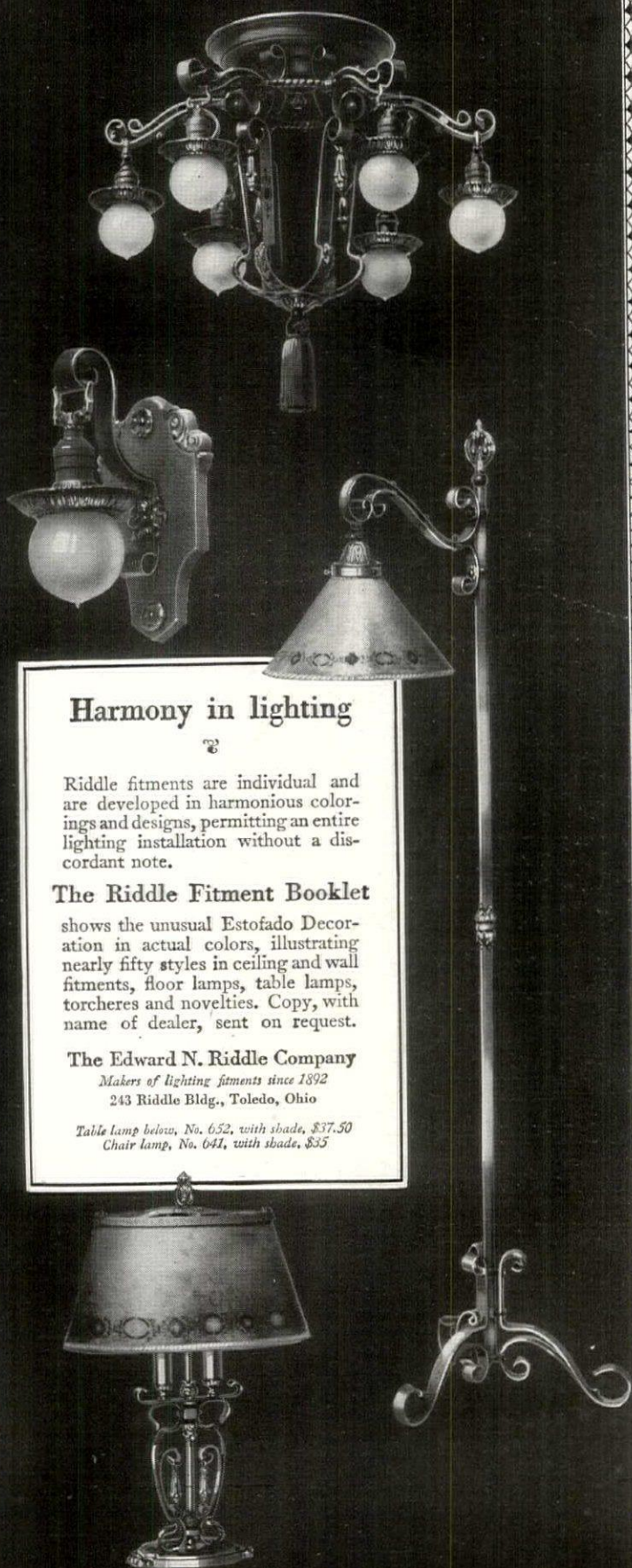
This is not simply our own conviction—it is probably safe to say that this opinion is universal among owners of the Packard Single-Six.

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Table lamp below, No. 652, with shade, \$37.50
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Three Barns

(Continued from page 61)

The first step in the process of rejuvenation was the substitution, where necessary, of new timbers for old. Only native oak, adzed by the local carpenter, or wood from an old Revolutionary barn, demolished for the purpose, was used so that harmony of materials and the old-time atmosphere would be retained. New oak floors were laid and new windows put in. Of the latter, some were double-hung, others of the casement or folding type.

MAINTAINING THE PRIMITIVE

There was no attempt to alter the outward appearance or to interfere with the lines of the primitive architecture. The building was made habitable and weather-proof, by applying a layer of building felt to the old walls, with new boards laid over it, and the whole then given a coat of the familiar red by which the ancient landmark had so long been distinguished.

The architect followed Colonial methods of construction and used the same type of primitive joinery as that which made the earlier work quaintly interesting. To-day the big barn presents much the same aspect as it did originally for nearly every detail of the ancient craftwork is to be seen, from the massive summer beam that spans the center of the studio to the small wooden dowels that pin the parts together.

The main part facing south became the studio living room, its great barn doors being retained to be thrown wide or kept closed, while for general purposes a single door was cut through the larger one, to be used when work or weather would not permit of the wide open hospitable effect.

The west wing, which once domiciled the patient Dobbin, became a glorified kitchen with a maid's room and bath adjoining. The old stalls were removed, the interior paneled and ceiled with wood. Lighted on three sides and by an outside door that affords an enchanting view of a low-browed hill in the foreground and rolling meadows beyond, the kitchen is one of the most appealing parts of the house.

UNDER THE GABLE

The quaint gable overhead, reached by an enclosed stairway from the studio, became a master's bedroom and bath. Open to the roof, with the secrets of the ancient rafters laid bare the room possesses both romance and charm. It is abundantly lighted by English casements, and windows that fold back upon themselves, forming practically an outdoor sleeping room. From the waste spaces under the eaves closets were evolved, while back of the huge chimney a corridor leads to a surprisingly ample attic space. Opening off the narrow hall is a small window that gives a unique and wholly unexpected view of the lofty studio.

To the east is the open shed that once gave hospitable refuge to visiting carriages, and which has not even now materially changed its guise, despite the fact the roof was raised to allow of sufficient head room to make it habitable. The result is a guest room, with an ingeniously contrived bath and clothes press adjoining. A filler was applied to simulate the new concrete floor was laid under the cracks seen in old Colonial floors.

open arches of the shed and run benches built around the sides to carry out the owner's purpose of making it a casual resting place for friendly visitors.

On either side of the old barn were the usual hay-mows. One has already succumbed to the expediency of the moment but the other, although converted into a most inviting hanging balcony, still suggests a measure of its former origin. The latter, once suspended from the barn floor, is now elevated to a height corresponding to the level of the guest room with which it communicates. The primitive ladder by which the hay loft was reached, still remains to lend a touch of realism to the scene but for practical purposes a new flight of steps of rough hewn oak and simple construction was built.

THE BIG CHIMNEY

In order to accommodate the massive chimney, the hay-mow on the left was entirely torn away and this necessitated a corresponding structural change, since the original post supporting the roof was removed, a truss with two new 3" x 6" beams was substituted to strengthen the fabric. The fidelity with which the architect carried out the detail is typified in the lighting of the studio. An old cart wheel, fitted with electric candles is suspended by chains from the roof, and wrought iron sconces of a primitive character are hung at intervals against the exposed beams about the room.

From whatever aspect "Three Barns" is viewed, the chimney composed of field stone in which the native soil of Connecticut abounds, is a striking and effective feature, not only by reason of its being a good example of local masonry but from artistic aspects since it is thrown into sharp relief by the deep red color of the walls.

Within the studio its charm is less apparent, for apart from the hospitable atmosphere, which a fireplace of the old-fashioned sort invariably creates, its treatment here forms one of the most salient points of architectural interest. Composed of both stone and concrete, it measures 14' broad at the base, with an 8' fire opening, capable of holding the great logs of Elizabethan days.

At either end of the chimney the stone walls have been extended into the room to a depth of 8' and the pillars joined by a slab of reinforced concrete to support the chimney and also to enclose an angle nook of generous proportions. Tall oaken settles flank the sides and the fireplace furnishings are those of Colonial days.

CONSTRUCTING THE FLOOR

In an alteration of this sort the little tricks an architect uses to accomplish his purpose are always of interest, a notable among them is the method employed to get the look of age in laying the wood floor. Since there was to be no cellar under the main portion of the house, a layer of ashes to the depth of a foot was put down to prevent dampness from seeping through, and keep the boards from warping. The oak strips were then cut tongue and groove on the under side with a quarter inch opening on the surface to which a filler was applied to simulate the new concrete floor was laid under the cracks seen in old Colonial floors.





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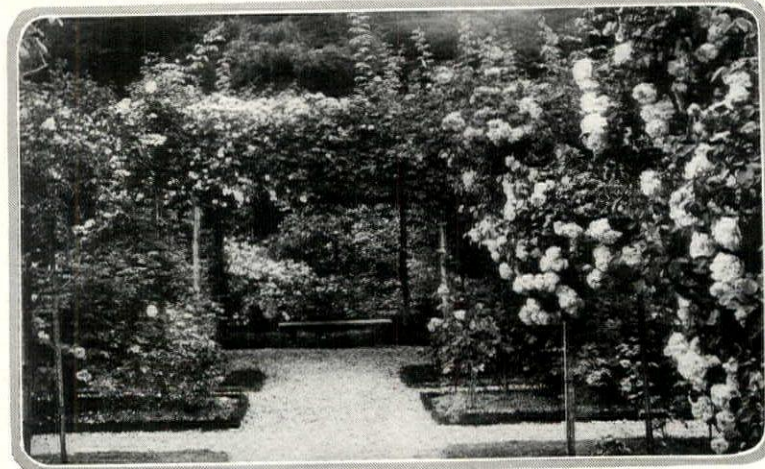
Now we go further. By pricing our furniture nationally, we enable you to buy, confident of quality, secure in the knowledge that the price you pay is uniform throughout the country. Thus, uncertainty is taken out of your purchasing, shopping-about is eliminated. Henceforth, you have a standard by which to judge.

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This corner of the Roserie is fitted with beds, arbors, treillage and stakes in order that all the newest varieties in every type may be grown and shown here to the best advantage

The Greatest Rose Garden in the World

(Continued from page 53)

times, developed practically, the results are unhappy.

I feel it easier to obtain a continuous brilliant effect in an ensemble of roses by opposing contrasting colors, or assembling lightly varied shades. Moreover, to aid the foliage, rose bushes often being unable perfectly to make the indispensable green background, it is necessary to place green hedges of other plants with thick dark green leaves. The mixing of different colored roses does not handicap the maintenance of a methodical distribution in the collection, but to repeat the same rose in the plots or along the ornamentation means reducing the capacity of the garden in so far as the collection is concerned. This is the reason why the single color parterres are kept to the center only of these particular rose gardens. Although it is true that a garden should not be considered merely from a scientific point of view, it is no less true that a spectacular display can easily be so arranged that one's interest in the individual varieties of the collection can be maintained.

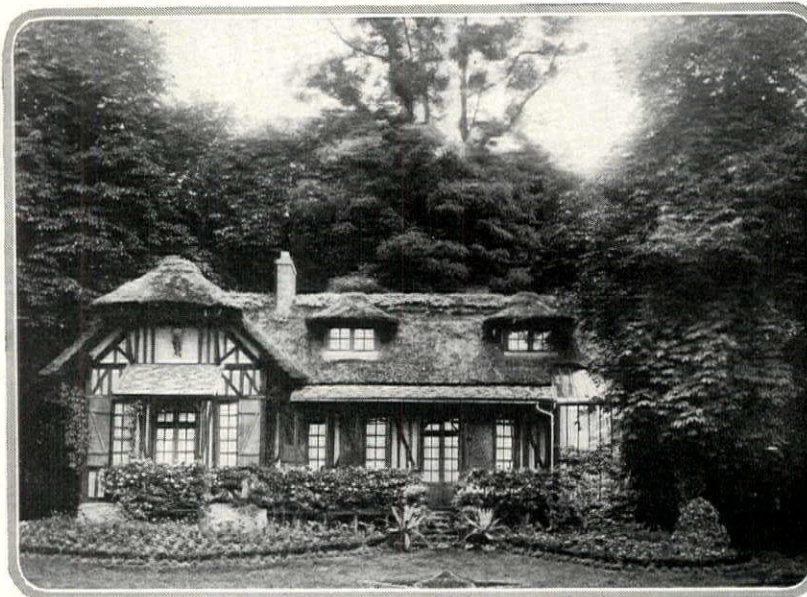
In the gardens of L'Hay, the area of which is five acres, there are from eight to ten thousand distinct varieties of roses, and although strict method is applied in the distribution, no efforts have been spared to prevent the monotony of

a mere scientific garden. It is divided into twelve plots, which, visited in due order, show the various gradual steps in the evolution of roses since their first appearance up to this date.


The wide space where the "water mirror" is located is in the center of the garden and is named "The garden of the most beautiful roses". It is encircled by pyramids of roses. To the right are the old and to the left the contemporary varieties.

Beginning at the right, we first find the collection of interesting species from the botanic and horticultural points of view; then come the old *rosa gallica*, the *rosa centifolia*, or "hundred leaved roses of Roman feasts and of the painters of yesterday", the "Gros Provins", the "Nymphal Limb", the "Tassel of Saint Francis", etc. After that division follows the one bearing the roses that Empress Josephine used to cultivate at Malmaison. There are the ones bearing such pretty names as "Chloris", "Clio", "Aimable amie", "Beaute tendre", "Tendresse", "Belle Sultane", "Nouveau petit serment". They are the centifolia or cabbage roses, the Damascan, the Evergreens. Then, nearing the central division, comes the collection of Oriental roses where can be found roses from India, the ever-blooming of China, Japan, Bengal and Persia, imported

(Continued on page 102)



A thatched, half-timber cottage, a reproduction of the type familiar to Normandy, is used by Mr. Gréveraux to house his interesting collections of things pertaining to roses, among which is a series of stamps on which roses have been engraved



BEAUTY THAT LIVES

Even if your attention were drawn to nothing further than the exterior beauty of the new Lincoln, that beauty would immediately command, and merit, your respect.

For the perceptible things so pleasing to a Lincoln observer rest their appeal on three fundamentals. These are good taste, purity in design and refinement, and a quality that knows neither sparing nor compromise.

Are not these things the rudiments of that enduring beauty from which the years cannot detract?

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LITTLE did our forebears dream of the beauties of candles and candle-light that to-day are yours. Modern opportunities for pleasing decorative and illuminating effects and modern methods of candle manufacture have made possible their greatly heightened charm.

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THE ATLANTIC REFINING CO., Philadelphia

ATLANTIC CANDLES

The Greatest Rose Garden in the World

(Continued from page 100)

since the end of the 18th Century to our days. It is from hybridizing these with the *rosa gallica* that contemporary horticulturists obtained, during the 19th Century and these last few years, the prettiest of our roses, particularly the climbing hybrids and the tea roses.

The uncovered parterres of the central part thus have been reviewed.

To the left are the roses created during the last few years right in the L'Hay gardens. Here can be admired "Mme. R. Poincare" and "Victorious France". Then come the new roses which were awarded prizes at the annual Bagatelle flower fair, such as, "Marquise de Siney", awarded first gold medal at Bagatelle in 1907, "Rhea Reid", created by E. Gurney Hill, of Richmond, Indiana, and the "Lyon Rose", "Jonkeer J. L. Mock", "Sunburst", "Mme. Edmond Rostand", "Beaute de Lyon", "Queen Alexandra", "Nevrow Nora Van Tets", "Paul's Scarlet Climber", the admirable "Wichuriana" which has such wonderful scarlet petals, the beautiful yellow roses of Pernet-Ducher "Benedicte Seguin", "Souvenir de Claudius Pernet", and "Mrs. Weym Quin" of Dickson, also "Los Angeles", the American success of 1918, introduced by Howard & Smith of Los Angeles.

It might be worth pointing out that when I intended establishing a rose garden in the reconstituted gardens of Bagatelle, in 1905, Mr. Gravereaux offered me all the rose plants which formed our first collection, all taken from the L'Hay gardens.

In the "Roserie de Madame", Madame's own rose garden, are found the varieties of the most coveted roses of

today, such as the "Ulrich Brunner", "Caroline Testout", "Mme. Abel Chatenay", "Lady Hillingdon", "Mme. Ravary", "Laurent Carle", "Clos Fougeot", "Juliet", etc., and besides the great flowers, the small roses which were at one time so popular in America for men's wear and house decoration.

Then, at last, comes the experimental plot where are gathered the new roses obtained by Mr. Gravereaux, patient and careful selections for the production of rose essence. He has named this division "The Collection of Perfumed Roses". There are, together with the hybrid varieties which he obtained, other varieties of roses cultivated in territories widely known as producers of rose essence, such as Bulgaria, Tunis and Provence.

Mr. Gravereaux has put the finishing touch to his work by forming a Rose Museum. Everything that mentions the rose or has been inspired in its form and decorative worth; all sorts of woven fabrics, china, sculptures, paintings, metal and wood carvings, etc., are represented in the collection of the charming little rustic house, built within the gardens, facing the central parterres.

One day, when Mr. Gravereaux was showing the contents of his little museum to the poet D'Annunzio, he even showed him a collection of postage stamps adorned with roses. "You are right," said the poet smiling, "when love is the guide, extremes are always attainable." This sentiment is shared by all horticulturists and lovers of roses who have derived from Mr. Gravereaux' achievements so much assistance and inspiration.

The Stars and Flowers

(Continued from page 56)

Old English Herbals", recently published, has some particularly striking herbal magic in Anglo-Saxon peasant, she says, "went to gather his healing herbs he may have used Christian prayers and ceremonies, but he did not forget the goddess of the dawn. It is noteworthy how frequently we find the injunction that the herbs must be picked at sunrise or when day and night divide, how often stress is laid upon looking towards the east, and turning 'as the sun goeth from east to south and west'. The ceremonies are all mysterious and suggestive, but behind them always lies the ancient ineradicable worship of Nature. To what dim past does that cry, 'Erce, Erce, Erce, Mother of Earth' carry us?" Miss Rohde quotes from a twelfth-century herbal a prayer to Earth which begins thus: "Earth, divine goddess, Mother Nature who generatest all things and bringeth forth anew the sun which thou has given to the nations. . . . Hear, I beseech thee, and be favourable to my prayer. Whatsoever herb thy power dost produce, give, I pray, with good will to all nations to save them and grant me this my medicine."

From one of these early herbals she gives the instructions for gathering the "joyous flower" of the marigold: "It must be taken only when the moon is in the sign of the Virgin, and not when Jupiter is in the ascendant, for then the herb loses its virtue. And the gatherer, who must be out of deadly sin, must say three Pater Nosters and three Aves." Of a strange flower called Asterion or Lunary she quotes this romantic information: "The stalk of

this herb is red and thyse herb semeth as it were musk and the joyce thereof is yellow and this groweth in the New Moone without leve (leaf) and every day spryngeth a newe leave to the ende of iytene dayes and after fyftene days it loseth every day a leave as the Moone waneth and it springeth and waneth as doth the Moone and where that it groweth there groweth great quantitie." Lunary was supposed to be very efficacious in the cure of "the falling evell."

There is a pretty Christian legend of great imaginative suggestiveness thus retold by Mr. Charles M. Skinner in his "Myths and Legends of Flowers, Trees, Fruits and Plants": "The little flower we call Star of Bethlehem, whose bulb is roasted and eaten by orientals, is part of that very light which shone in the heavens at the birth of Christ: for after it had led the wise men and shepherds to the manger it burst, like a meteor, scattering acres of flowers about the fields. It was as if it had been drawn from the glorious company of the skies by the great glory of the Babe. Joseph, going out at dawn, gathered handfuls of these blossoms from the wintry earth, and, pouring them into the lap of Mary, said, 'See, the star in the east has fallen and borne fruit in kind'."

Here is a symbol which crystallizes in a beautiful, simple form man's immemorial poetic sense of a mysterious connection between the flowers of the sky, and the stars of the earth. In a world where, for all our accumulated science, everything remains mystery,

(Continued on page 106)



*Famous old fable retold
in pictures on this
Toile de Jouy*

La Fontaine's "The Miller, his Son and the Ass" the theme of a unique print

AMONG the famous Toiles de Jouy executed at the end of the 18th Century there are none more charming than those which relate in pictures familiar myths and allegories.

The design for the interesting piece illustrated here was taken from one of La Fontaine's immortal fables. The artist—probably J. B. Huet—took the dramatic points of the fable of "The Miller, his Son and the Ass" and composed them charmingly. The design was then printed in Oberkampf's famous manufactory at Jouy.

Now it has been printed again in France for the exclusive use of F. Schumacher & Co. in this country.

This unique print together with others as interesting may be seen and purchased through your own decorator or upholsterer. In addition to prints Schumacher offers many other distinctive fabrics appropriate for decorating any type of room. F. Schumacher & Co., Importers, Manufacturers, Distributors to the trade only of Decorative Drapery and Upholstery Fabrics, 60 West 40th Street, New York. Offices in Boston, Chicago, and Philadelphia.



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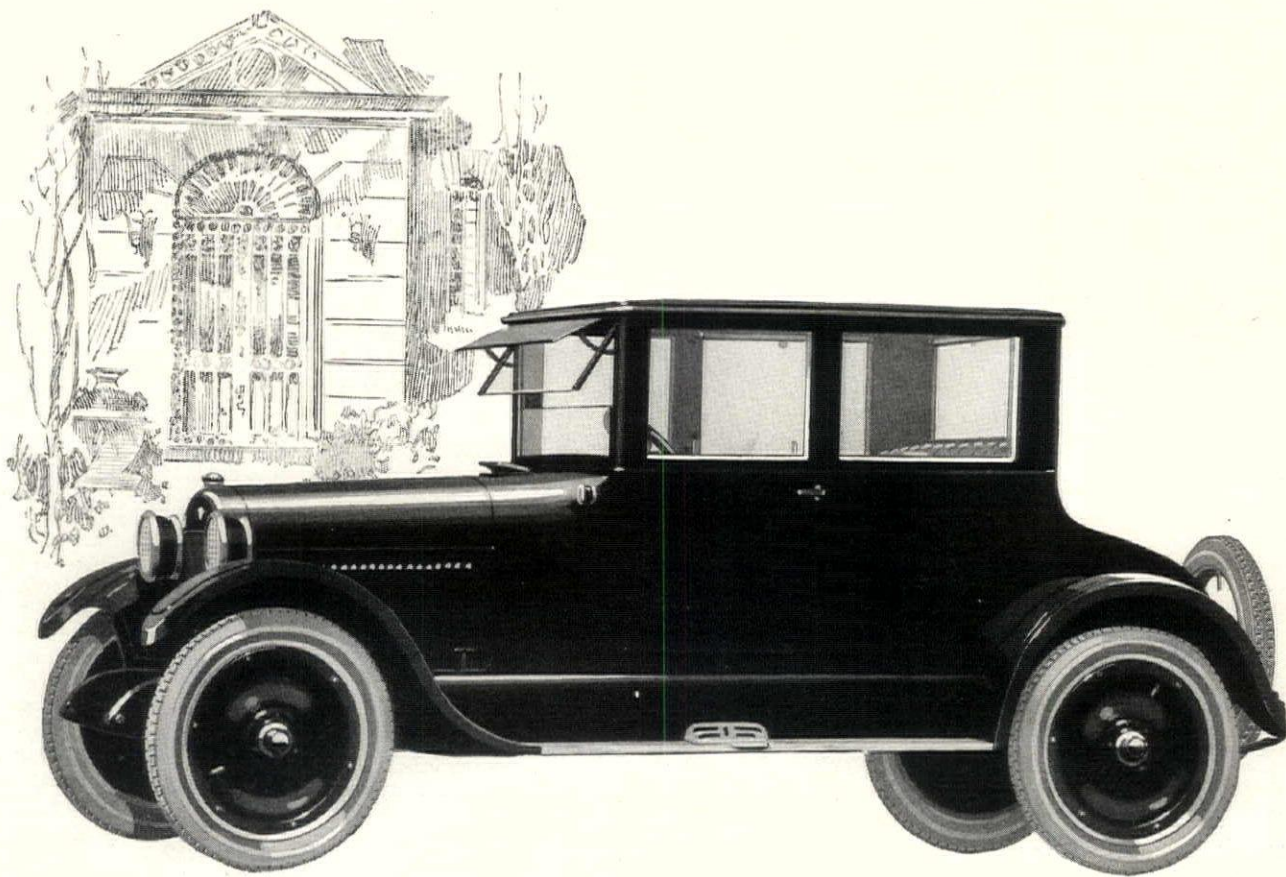
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Touring Reo	1485
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am" Reo	2185

At Lansing, add Federal Tax



REO MOTOR CAR COMPANY, *Lansing, Mich.*

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Paint, hardware, drug, house-furnishing or department stores sell Old English products.

The Stars and Flowers

(Continued from page 102)

and all vital processes resolve themselves in their final analysis into an unknown creative act for which the word "magic" is as good a word as any, that astral agencies may exercise a potent influence over flowers is not necessarily an absurd or superstitious suggestion.

That one planet on which all our earth-life is dependant, namely the sun, is responsible for the coloration of flowers is a matter of quite rudimentary knowledge. So far as anything can be known, we know that the colors of the flowers come of their individual reception of the white light of the sun, each flower selecting or rejecting one or other of those spectral colors of which that white light is composed. "A red flower, for instance," says a scientific authority, "absorbs the blue and green rays and most of the yellow, while the red rays and usually some yellow are scattered." How the flower does it, and why, remains the flower's secret.

If the rays of one planet are thus absorbed and differentiated, why not the rays of others? Why may there not be other influences, "waves" of other potencies, emanating from the

planets, charging the flowers with other of their qualities, such as their perfume, their form, their dynamic properties of sustenance, stimulus or poison, their "enmity to blood of man", or the friendly alleviations they bring to his nerves, their mysterious powers to soothe, to inspire, to madden or to destroy?

With their roots in the earth, their faces to the sky, strange little alembics, alchemising sunlight and dew and the soil in which they grow, why may they not also alchemise starlight and moonlight? Why may they not draw from them fairy essences, catching in their little cups trans-lunary ichors of immortality, and translating into cabalistic forms of a loveliness which we feel to be unearthly the spherical music, the timeless reverie and dream of the radiant, brooding Infinite?

Though they grow upon the earth, we cannot but feel that they came from heaven, and that old Culpepper was not so far astray when he said that "he who would know the reason or the operation of the herbs must look up as high as the stars."

LIME FOR SOIL ENRICHMENT

IT IS a well known fact that vegetables require a coarse, open, and friable soil. For that reason, sandy or loamy soils are generally selected for vegetable crops because of their natural suitability.

The ordinary home-owner cannot select his soil, but must make the best use of the land in his backyard, whether it is suitable or unadapted to the requirements for very sensitive vegetable plants.

Circumstances then require that the home gardener make the best of conditions through artificial means. He must make a loose, friable soil out of a heavy stubborn one. There are various forces he can marshal, the combined influence of which will give the desirable physical condition in his soil. One of the common aids to this end is

the mixing of coal ashes with the soil at the time of spading. A second very potent force is the natural action of alternate freezing and thawing. A third is one at his command, and is a very forceful agent in rendering soils friable, namely, the use of lime.

Burnt forms of lime, of which the hydrated lime—obtainable at the building supply dealer—is the most convenient to use, has the power of crumbling the soil structure, and making the garden area take on the apparent properties of a sandy class of soil. At the same time that it gives these desirable physical qualities, the lime also creates in the soil favorable chemical and biological conditions to which most vegetable crops respond, both in yield and quality.

JOHN A. SLIPHER

How to Prepare the Soil

(Continued from page 80)

fibrous roots did remarkably well. I remember especially the fine growth the viburnums and cornels and euonymus made. All kinds of roses, like the sweet brier and the wild varieties, were very lovely too. But trees never got a start; even the cedars near the house never were really happy and all plants that searched for food beneath this layer of soil found their roots penetrating into the salt sand. When their roots came in contact with salt water whenever there was an unusually high tide, they remained stunted and starved looking, and died after a short struggle for existence.

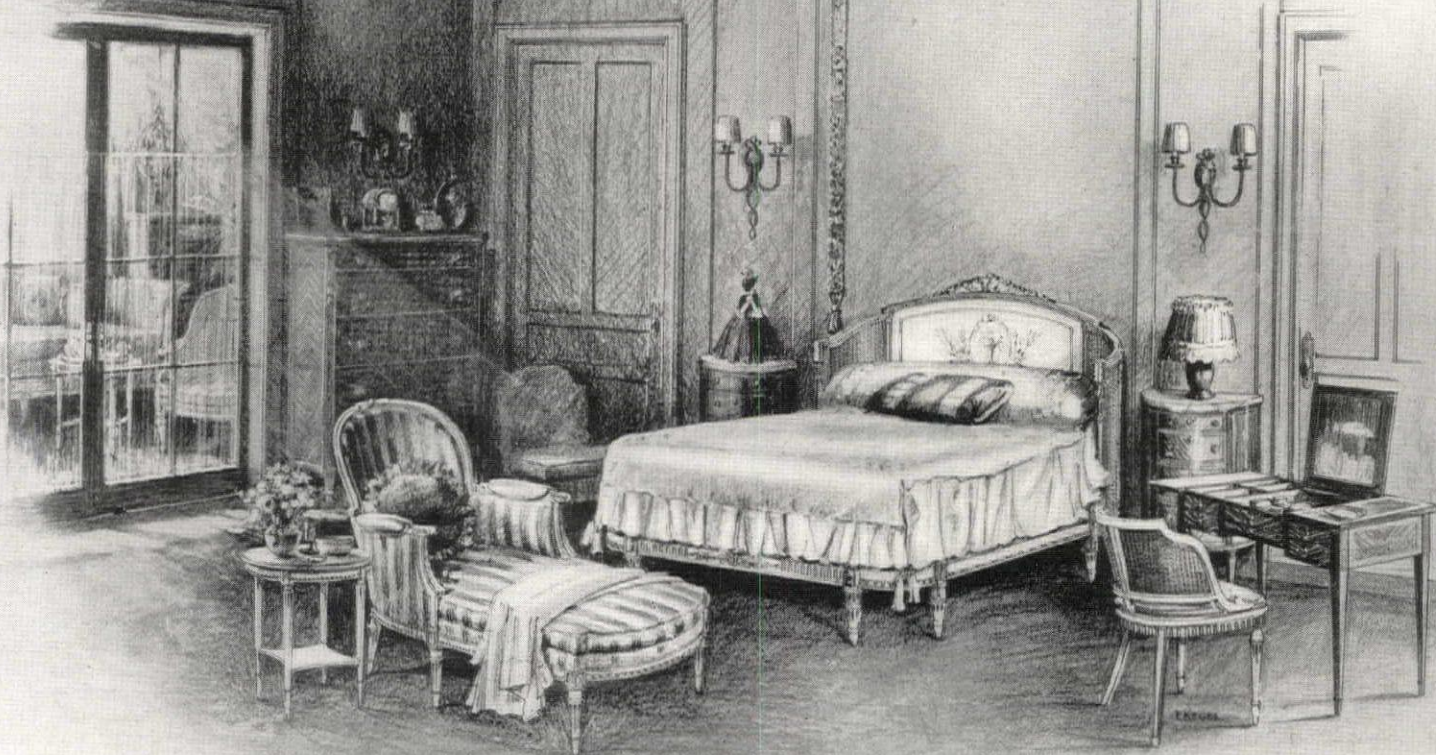
When money for soil became more and more restricted, attempts were made to put the plants in little pockets of soil—to start on as it were—but these plants, too, remained starved and dwarfed when they lived at all and the windbreaks that they should have made were never achieved.

In ordinary soils, however, this idea of enriching the soil immediately around the roots of the plants by placing a little manure mixed with good soil at the bottom of each hole is not a bad

idea. What it saves in topsoil and manure is not always commensurate, however, with the extra time and labor and superintendence required by this kind of planting. It is better to spread a layer of manure over the planting area and plough or fork it in. Bone-meal and wood ashes can be added to this mixture. About one pound to every 50 square feet will be enough for a heavy soil. Sand can be added in small quantities for a too heavy soil. One and a half yards of sand will be a conservative estimate for a border ten feet wide by a hundred feet long. To all this preliminary work you can then add some extra good top soil—about three yards for the same area above mentioned. This can be spread over the entire area or dumped in piles and used as required when the planting is done.

This is the preparation recommended for the common run of nursery stock—for shrubs and trees of ordinary nursery sizes. The smaller and younger the plants the easier of course, they will adapt themselves to moving and new

(Continued on page 108)



Furniture

transcending the commonplace, well within moderate cost



De luxe prints of attractive interiors, simple or elaborate as desired, gratis upon request.

INSPIRED by the Classic revival with its tendency toward greater simplicity, the French cabinetmakers of the late XVIII Century created a style of Furniture which remains unsurpassed in beauty of proportion, ornament and decoration.

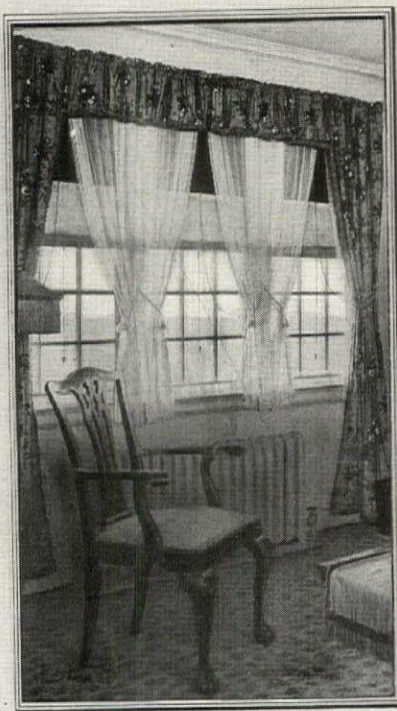
Because of these qualities the Furniture of that time is admirably adapted to the American home of today, as is well exemplified by the charming Sleeping Room and adjoining Boudoir pictured above. The graceful Louis Seize bed, *chaise longue* and chair, finished in a subdued glaze, are richly contrasted by other pieces aglow with the exuberant color of tulip and satinwood.

Those who would infuse their surroundings with like charm will derive a wealth of suggestion from a stroll through the interesting Galleries of this establishment. Here one may assemble, piece by piece, an interior of the simplest character, yet achieve an individuality which only unconventional appointments can make possible.

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How to Prepare the Soil

(Continued from page 106)

conditions. For choice shrubs more careful preparation is advisable, more top soil, more bone-meal, more leaf mold, should be incorporated into the soil when the digging is going on. When it comes to transplanting big trees, you cannot be too lavish in the amount of preparation you make. It is especially valuable to make the holes wide and deep, not only to give the tree good friable soil to start its new existence on, but that the roots can be flattened and straightened out in a natural position before planting. A mulching of six inches of manure over the entire root area is also desirable.

BEFORE BORDER PLANTING

For the flower garden it is a great mistake to stint on soil preparation. One case stands out quite forcibly in my mind where the least possible money was expended upon the initial preparation of the garden. The flowers were chosen for their tolerance of meagre soil but the owner became so interested in these beginnings that she wanted more and more choice plants. It has taken much additional labor and constant digging in of manure to try to improve the borders which would have been a simple matter at the time the garden was first laid out. For a really good flower border, then, it is well to take pains with thorough digging, and to spend money on top soil and manure, upon bone-meal and wood ashes and wood soil—until it hurts. You will not regret it for it will save you many an annoying hour and much renewal of labor later on. After the plants are in the ground and the garden is full of bulbs it is always difficult to rectify shortcomings in a garden soil preparation. The manure can be spread in four or six inch layers and forked in as deeply as possible; the bone-meal and other fertilizers can be sprinkled on and then worked into the surface.

TRENCHING

There are cases, in very sandy locations, where much of the existing soil has to be discarded entirely in order to get good soil of sufficient depth for a good garden. In heavier soils the existing soil is worked and enriched. One method of working the soil for a garden is what is called trenching. Mr. Wright, your editor, has given me the method he used in trenching one of his new garden borders. I think you may like it in his own words as it makes the process more real than a theoretical-looking specification. If you are an experienced gardener you may appreciate the joy that went into the labor, if you are a novice it may encourage you to do the same.

He writes—"The new border which I put in last fall was a very simple matter. It measures 65' long by 4' wide. After staking it out I lifted the turf and piled it on one side. Then I dug the first spit of soil and threw that out on the other side. Underneath this lay the subsoil which was more or less hardpan. As this subsoil is usually pretty firmly packed, I dug this down to a spit, throwing it behind

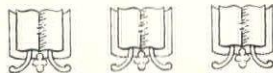
me as I went along so that by the time I got to the end of the border there was quite a large hole the depth of the upper soil and the depth of the hardpan; in other words, about two and a half feet deep. Starting with this hole I took the turf and laid it grass down on the bottom. Then manure and hardpan mixed were shoveled over this. Some bone-meal also was scattered through. It was a very simple matter to shovel the hardpan back into place. As one section was filled the one next to it was emptied and into that again went turf, hardpan and manure. Finally the top soil mixed with leaf mold and manure was filled in. On the top I put a sprinkling of bone-meal and lime, and left the soil heaped up so that it could settle. In about two weeks time it had practically settled to the level of the surrounding turf and it was raked fine. The week after that I put in the plants. To make doubly sure that the plants would have plenty of food, their roots were surrounded with leaf mold.

SWEETING THE SOIL

"There is nothing new about this process. It is simply what in England they call trenching. The turfs at the bottom will rot and form good soil. The manure with the hardpan will sweeten the character of that level of soil, and of course, the leaf mold, manure, lime and bone-meal and the top spit of good soil will give abundance of food. Where a bed needs draining it might be well to throw some old brickbats and cinders in the hole before you lay down the turf. In my case it did not need draining and because the soil is very stony I took out most of the rocks. They, of course, could be used for drainage had drainage been necessary. That, for a matter of fact is the only way to make a border, if you expect permanent results. So many people dig down one spit and let it go at that. When the roots get below that spit, they hit the hardpan and simply curl up and die. The digging of this border took me about three days—working at it in odd moments."

THE TEST OF SOIL

It is a friable garden soil that is as important as a rich one. That is why the soil should be thoroughly mixed and pulverized. A gardener who had worked with Mr. Henderson once told me that his gardeners were never allowed to use trowels for planting flowers. This was surely the master test for a friable, well pulverized soil, for if they could not plunge their hands easily into the earth it was not considered good enough for planting. I should not go quite as far as that. If a gardener can plant a bulb, for instance, with one continued movement of his trowel—this movement comprising plunging the trowel easily into the earth with one long downward movement, pulling it toward him while dropping in the bulb with the other hand in back of the trowel in the meanwhile—then you can be quite sure that the soil is friable enough for all garden purposes.





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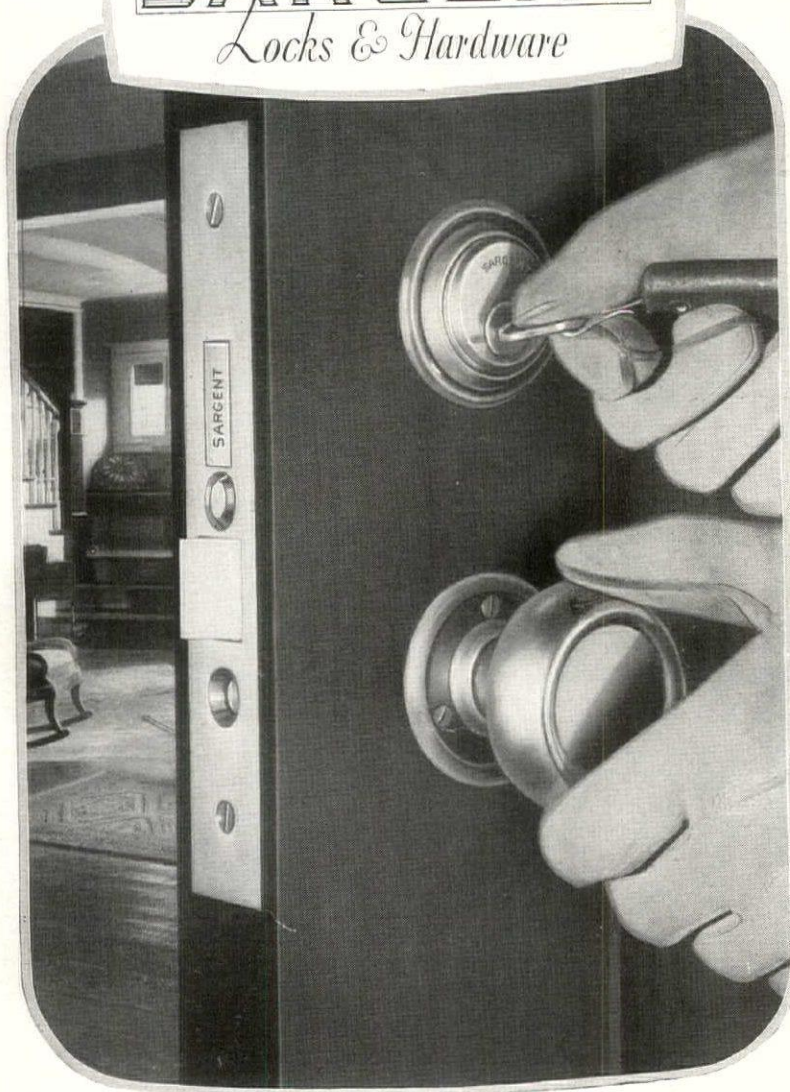
You can buy Fisk Tires with surety that they will give money value and low mileage cost with trustworthy service.

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Connecting with the Sargent Cylinder Lock, you may use a knob and escutcheon or a door handle to match the Sargent Hardware within your home—the same fine design, the same solid, time-resisting brass or bronze. Select Sargent Hardware with your architect. Send for the Sargent Book of Designs.



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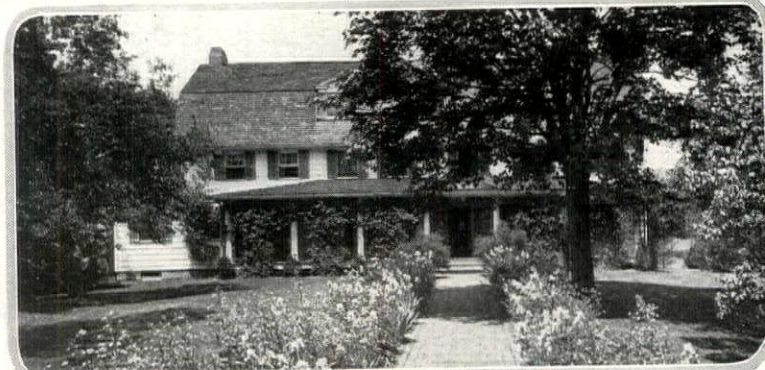
are as finely and stoutly made as a padlock can be—in their way as perfect bits of mechanism as the Sargent Cylinder Locks. They bring real security when used on garage, tool house or locker door, on the tire rack and chest of valuables.

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Duryea

The spring approach to this Long Island farmhouse is made beautiful by a wide planting of iris and anchusa each side the walks

AN INTIMATE ROCKERY

SPRING and the iris walk leads you to this delightful old Colonial house Long Island. The red brick walk is planted thickly on either side with lavender and purple iris, with great clumps of blue anchusa and tall stalks of lupine in lavender shading to the pinky purple.

The interior is made quaint by low, beamed ceilings and the mullioned windows. The entire house is a gem, consistently furnished in the period. A great deal of maple, or, as some call it, yellow mahogany, has been used, which lightens up the interior. This wood is especially useful in a living room that opens directly out on the low piazzas and is apt to suffer a little for want of light. The chintzes used are all old patterns of the English type. That used in the hall and living room is of an old farmyard scene—cream ground with mulberry. These chintzes reflect the colors that are found outside in the garden.

The dining room's low windows lead directly out into the rock garden. Most original and clever is the cutting away of the rise of the orchard directly behind the house for about fifty feet. The cobbled wall of this delightful intimate garden has a wall fountain which

bubbles into a blue bowl whose edge is made of the same cobbles. You scarcely notice that it is not a natural pool, so cleverly has the designer planted around it. The space between this wall and the house is paved with broken flags, between which grow many varieties of small rock plants whose tiny little moss-like flowers sturdily withstand any treading upon them.

The little garden at the base of the cobbled wall is cleverly planted with perennials which at all times is an attractive continual succession of bloom and in winter evergreen shrubs still make it a little picture. Over all the old apple tree shelters like an umbrella this delightfully unique spot.

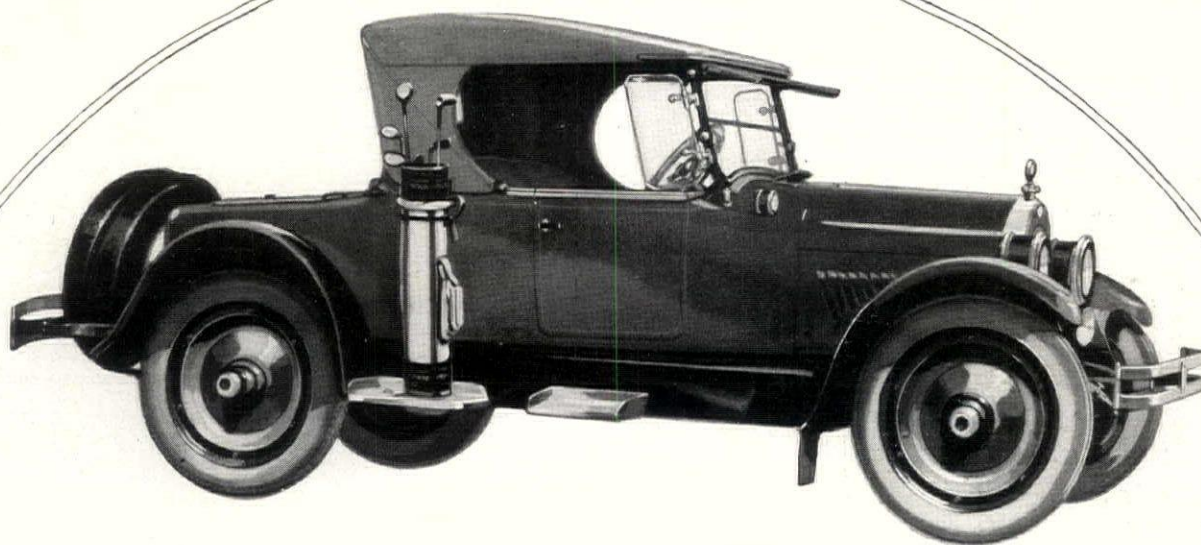
In fact, a rockery is always an intimate type of garden. While in large developments there may be broad areas of bloom, the real charm of alpine plants can only be appreciated when they are seen close to. It is Lilliputian work, this developing a rockery, and requires the greatest of care in both planting and maintaining. However, it brings a wonderful compensation. If one has only a little stretch of dry wall beside the house, plant it to rock plants. And the closer to the house, the more it will be enjoyed.

From the dining room one passes directly to the little sunk rockery



This rockery comes at the end of the long view from the dining room





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\$1625 at factory

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Price Range: Fours—\$955 to \$1595; Eights—\$1375 to \$2025 f. o. b. Lansing

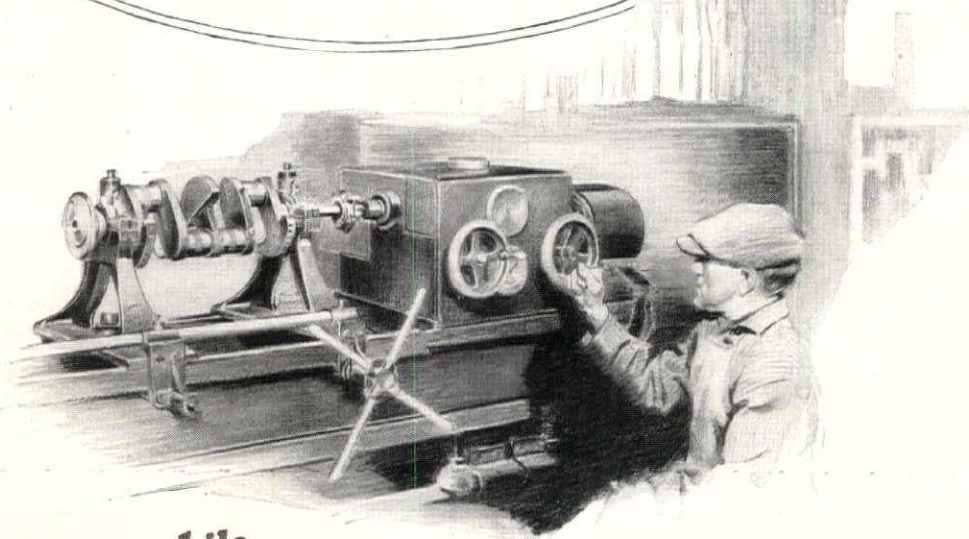
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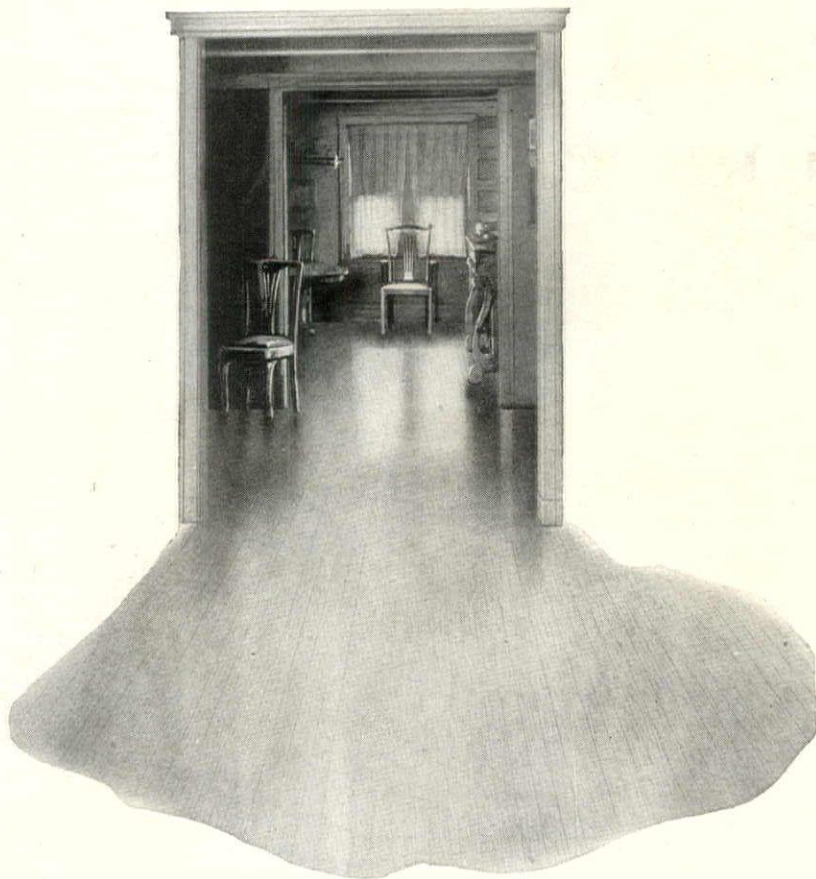


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In the absence of any great price advantage, it is hard to see why anyone living in the United States today should forego the pleasure and satisfaction of dustless Floors of Oak.

Three free booklets, in colors, telling the whole story of Oak, mailed free, upon request.

OAK FLOORING ADVERTISING BUREAU
1047 Ashland Block, Chicago, Ill.



Old brocade in tones of blue and green shot with gold softens a long side wall besides providing a decorative background for an old painting. Mrs. Olive W. Barnewall was the decorator

THE HANGING ON THE WALL

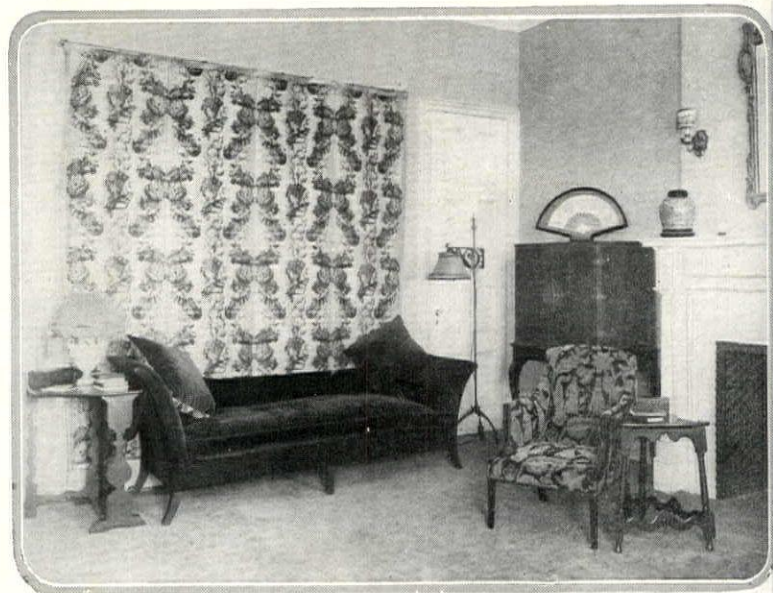
IN A room of any size there are bound to be long wall spaces that often prove difficult to decorate. Not everyone possesses an old portrait right in size or a painting of sufficient dignity for the space over a mantel or on a long side wall. Groups of prints may be used but unless these are of unusual interest and right as to size it were better to leave the space blank. Reams might be written on the subject of the pictures in a room. They should be as carefully considered as the hangings or furniture, for inappropriate pictures will go far towards spoiling an otherwise lovely interior. An important painting or decorative picture of some kind will have an entire room created for it and if one has some especially prized print, etching or painting it should be made a feature of, hung in a rather prominent place with furniture

and accessories arranged to show it off to the best advantage.

In spite of the growing popularity of wall papers, many people prefer the cool expanse of painted walls. Also certain types of interiors cry out for the regularity of paneled backgrounds. These are dignified but difficult to decorate as both furniture and pictures must be chosen for certain spaces.

A happy solution of both paneled spaces and long walls is to be found in a decorative hanging of colorful brocade or damask. This invariably lends color and dignity to a room and is often just the background needed to effectively silhouette certain types of architectural paintings or delicately carved and gilded Venetian mirrors. It affords a break between the cold, unyielding plaster and the mellow tones

(Continued on page 114)



16th Century Venetian brocade in rose and silver effectively conceals an ugly and unused door as well as silhouetting the lovely lines of a Directoire sofa. Mrs. Gillette Nichols, decorator

A beautiful new *Roofing Color* revealed by a Blast in the Georgia Hills



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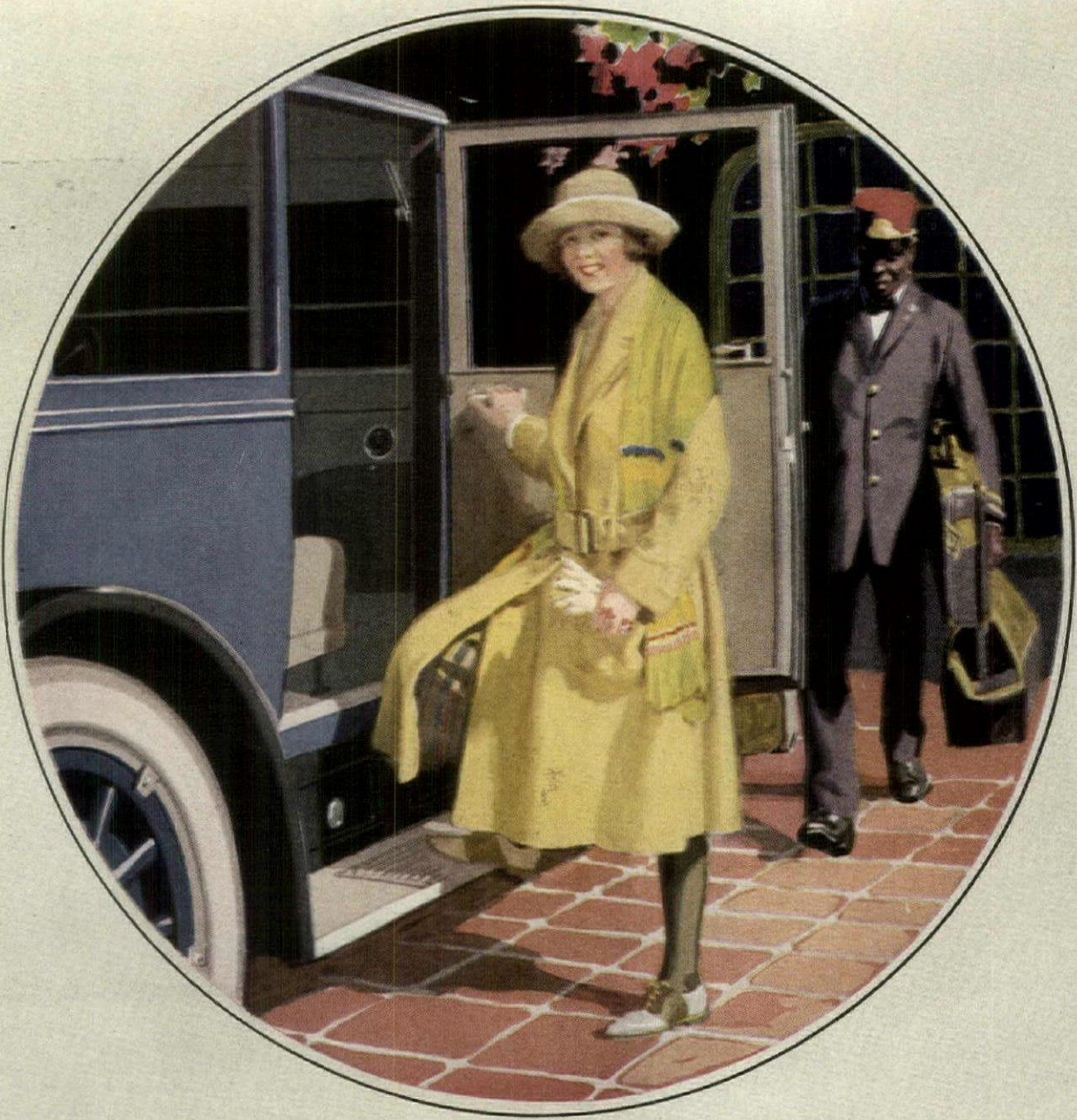
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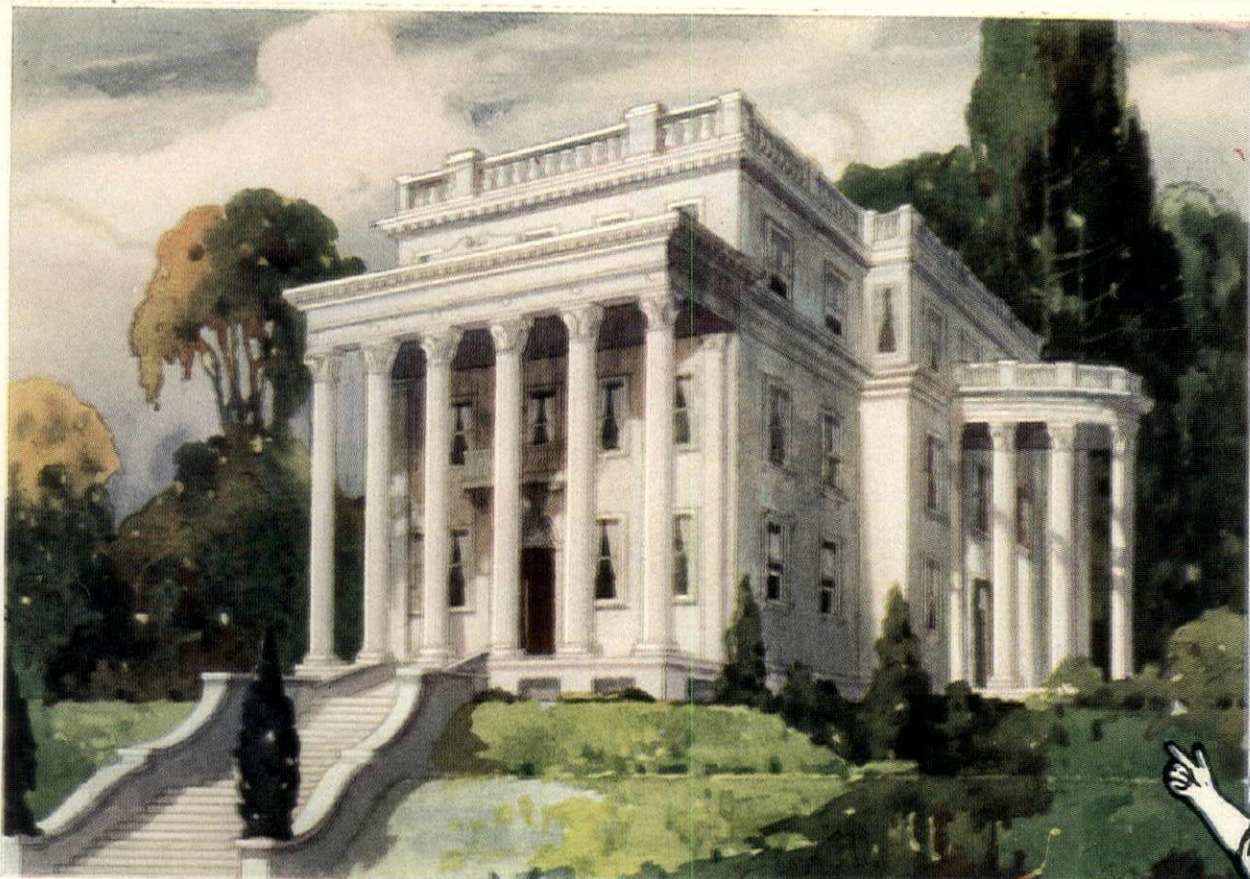
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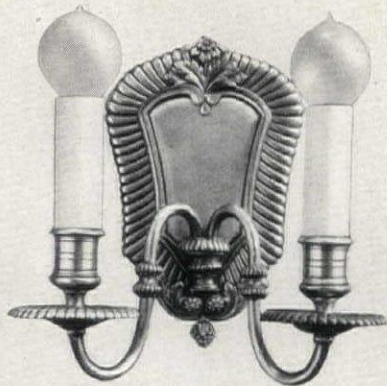
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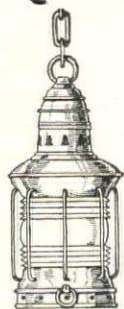
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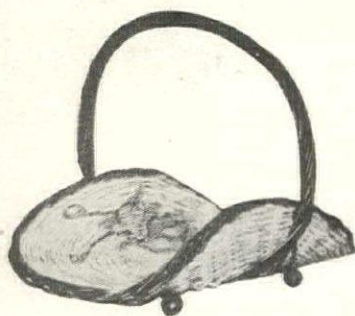


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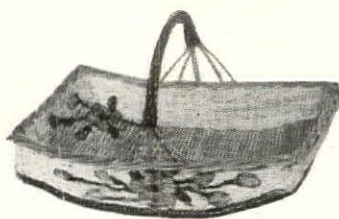
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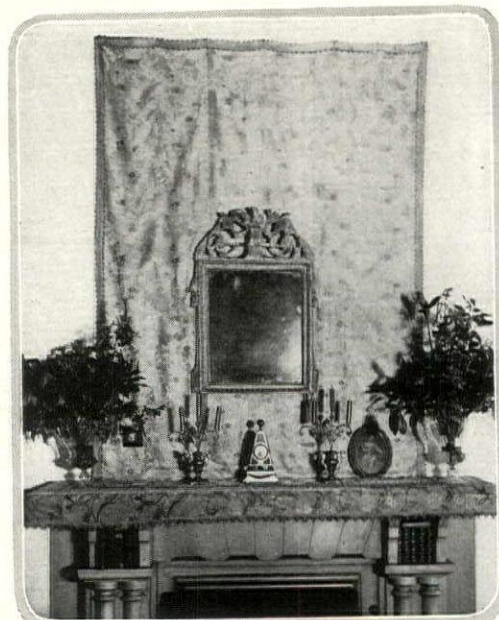
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The solution of the overmantel problem often lies in a piece of colorful brocade. Here the walls are pale green, the hanging green and gold. Courtesy of Mrs. Olive W. Barnewall

The Hanging on the Wall

(Continued from page 112)

of the tarnished gold of the mirror frame. Also if the walls are in bad condition a hanging of richly colored brocade will conceal them temporarily more successfully than anything else, and if there are any unused doors or places that need to be covered up, a length of brocade or damask will make that particular spot of the room more interesting.

The photograph at the top of page 112 shows the corner of a little morning room, done in tones of green, blue, dull old rose and gold. The walls are pale green, the furniture mostly walnut and the hangings of soft blue taffeta. Over the desk hangs a piece of old brocade in blue and green and gold. This has much the same old-world quality as the delicate Sheraton desk and Directoire chair. It brings great interest to an important wall

space and makes a charming background for the painting in mellow, old tones.

The picture at the bottom of page 112 shows a wonderful piece of 16th Century Venetian brocade in rose and silver used in quite a different manner. Apart from making a vivid and interesting background for the Directoire sofa covered in velvet, much the color of old burgundy, it successfully conceals a wide, sliding door that is never used. In this case the walls are again green and gold, a charming color for both brocade and sofa.

The photographs on this page show a silken hanging effectively used above a mantel and in the long space over a sofa. In one case a mirror is used against it, in the other a large picture with a group of miniatures below.

MARGARET McELR



A silken hanging in delicate colors successfully breaks the long wall space above a sofa and is quite in keeping with the delicate brocade of the pillows and softly toned Ambusson rug. Mrs. Olive W. Barnewall, decorator

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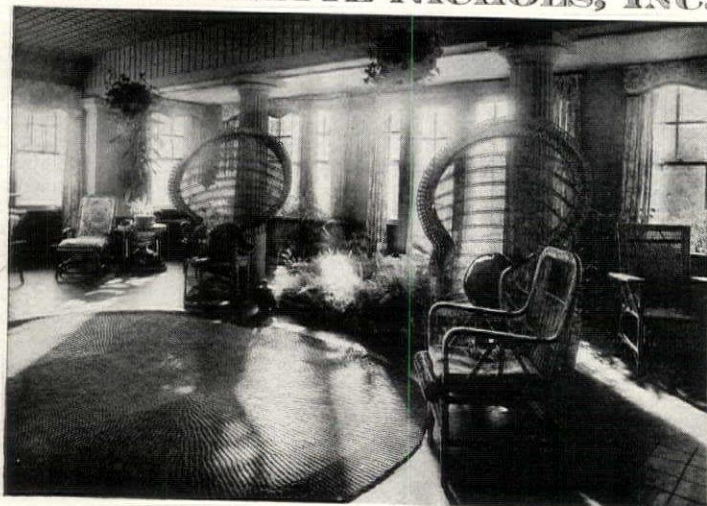
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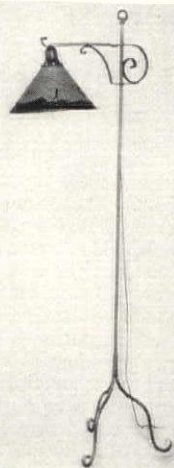
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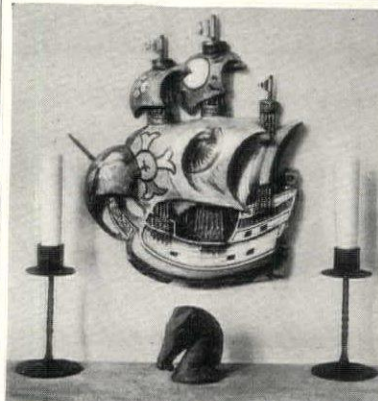
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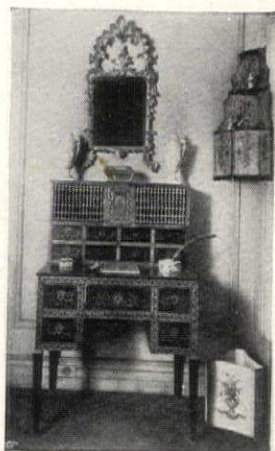
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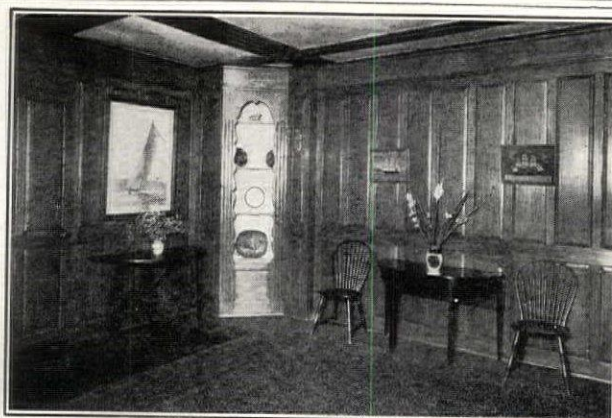


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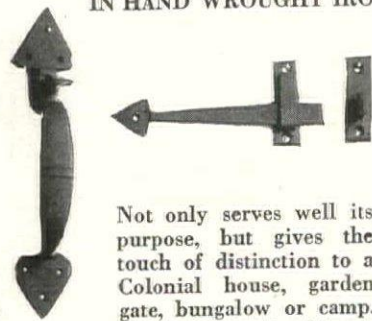
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NOTES OF THE GARDEN CLUBS

THE Garden Club of Lake George held its first Meeting in June 1921. Miss Schurz has served as President since the organizing of the Club, whose "object is the advancement of gardening". In the invitation extended to those interested in growing flowers to become members, the hope was expressed that they might "find inspiration in the exchange of ideas". There are sixty-five women in the organization, as active and associate members coming from the summer colonies in Bolton Landing, Diamond Point, Glens Falls, Luzerne, Mt. McGregor, and Warrensburg, as well as the town of Lake George. Meetings are arranged, whenever possible, in gardens, from June to October, inclusive. Some of the programs have been prepared by members, who have taken up the topics of the "Culture of Sweet Peas," "Fall Flowers," and "Spring and Fall Planting," and devoted one afternoon to visiting each other's gardens. Professional speakers addressing the Club have been Professor Williams, Botanist, of Glens Falls Academy, who talked on the "Preservation of the Wild Flowers," with water color drawings of them by Mrs. Williams; Mr. George Powell of Brookfield, Mass., who described the trees and shrubs for attracting birds and upon other occasions a garden consultant read a paper on "Garden Gossip of Celebrities", and Miss Hilda Loines gave a lecture, with slides, on "English Gardens". Miss Loines is a member of the Garden Club. Among the members who have designed their own gardens are the President, Miss Schurz, who developed a bare pasture lot into attractive terraced planting; Miss M. L. Hayden whose garden is partly enclosed by white trellises and arbors draped with vines and roses, and screened on one side by a wood; Mrs. W. B. Dean who laid out a formal garden close to the Lake; Miss Brereton whose garden is planted for "continuous bloom", using some material she imported herself. Other gardens designed by their owners are Mrs. Harmon P. Read's, with its 100' walk and broad borders,—and Mrs. Lawrence Jacob's beds of choice perennials amidst which stands a spreading shade tree. Among the members of the Garden Club are Mrs. Denny and Mrs. Harmar Brereton, Miss Florence Hayden, Miss Ranger, Mrs. Charles J. and Mrs. Royal Peabody, Miss Kreidler, Miss Merrill, Mrs. Ernest Stiles and Madame Homer. Included in the plans of the club for 1923 is the specializing in dahlia growing with competitions, also Flower Shows are to be held.

plants contributed by members were sold very profitably. During the year the Garden Club was several times the guest of the Williamsport Garden Club.

THE Garden Club of North Andover, Mass., was organized in 1920, chiefly through the efforts of Mrs. Lewis Sherrill Bigelow, who is the President. About half of the forty-two members composing the club are winter residents of Washington, D. C., New York City, Boston and elsewhere. Meetings are held every other week during the summer at the homes of members, whose gardens are afterwards visited. The Club has held a "Flower Arrangement Competition", in which Miss Ruth Ely received the largest number of votes and Mrs. Harry Clark received the second honors. At another meeting there was an exhibit of photographs of gardens, especially of those belonging to members, and specimens of flowers from the owners' gardens were also shown. Papers for the programs have been largely prepared by the members. Mrs. E. J. Prescott presenting the subject of "Hybridizing", "Rose Gardening as practised by an Amateur" related by Mrs. Harry Clark; "How to attract the Birds", explained by Mrs. John Chickering, and Mrs. Roland Harris described "Summer Wild Flowers". Also "Sketchy Impressions of California Flowers", were given by Miss Harriet Smith, and Mrs. S. F. Rockwell wrote of "Gardens in Literature". Non-members who have addressed the club have been Mrs. William Trow, who talked of dahlias of which she showed specimens, and the Rev. E. J. Prescott who spoke on his specialty of "Growing Pansies". Professional speakers have been represented by Mr. Fletcher Steele giving his views on "What Makes Charm and Interest in a Garden",—Mrs. B. Hammond Tracy who talked on gladiolus, and by Miss Katherine Selden who gave an account, with photographs of visits, she had paid to gardens in England, France, and Spain. A garden consultant read a paper "Over the Garden Wall Commercially", taking up the use of catalogs, and the business end of gardening, and at another Meeting the Club was addressed by Mr. W. N. Craig, President of the National Association of Gardeners. As a variety in the programs an "Experience Meeting" of the members was arranged and another day was devoted to an exchange of plants and roots. About half of the club members, including the President Mrs. Bigelow, have designed or planned their own gardens.

THE Garden Club of Utica, New York, formed in Nov. 1916, of which the President is Miss Marion H. Thomas, includes about fifty men and women in the membership, the dues being twenty-five cents. The club meet in the Public Library all through the year, excepting in December and January, once a month in the evening and once in the afternoon, monthly. All members take part in discussions and sometimes they prepare papers, while other meetings have professional speakers on the programs, which have consisted mostly of horticultural topics. Among those appearing before the Club were Mrs. Ada Peck of Waterville, who spoke on "Gardens & Flowers"; Mr. Mortimer G. Merritt of Rome, N. Y., telling of "English Kitchen Gardens" and Professor S. C. Hodges, who lectured on the "Soils of Oneida County". The subject of "Earthing, and Transplanting to Hot Beds and Cold Frames" was treated by Mr. Milton Williams, and the Secretary of the "American Peony Society", Professor Saunders, talked on "Peonies". Two Field Days have been enjoyed.

(Continued on page 118)

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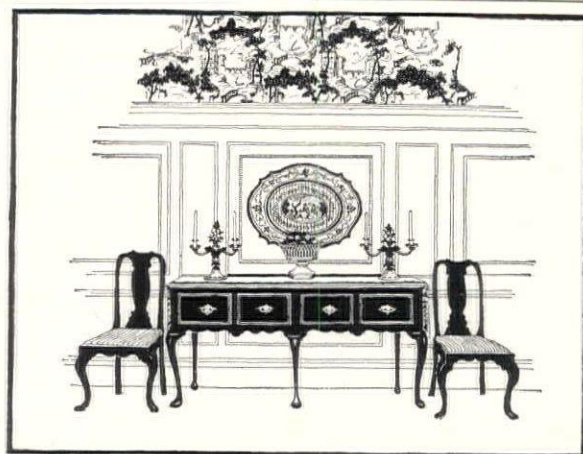
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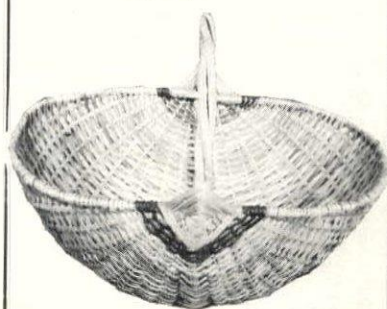
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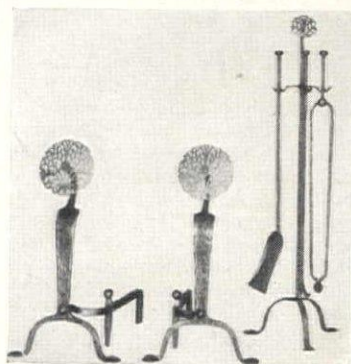
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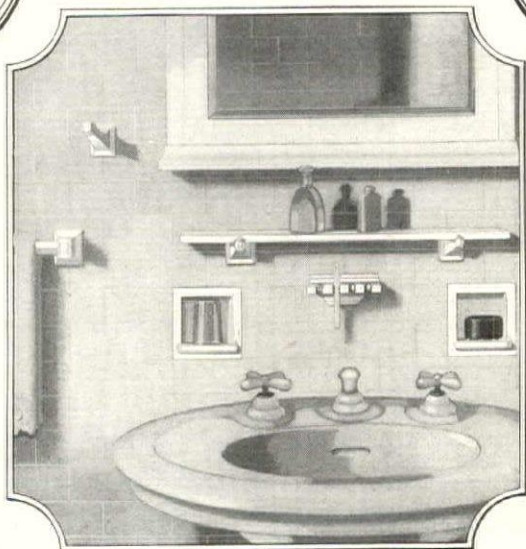
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Notes of the Garden Clubs

(Continued from page 116)



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the Plantadendron, Utica, and on another occasion the club was the guest of Mrs. C. S. Luce, at her place in Ilion, New York. Throughout the blooming season flowers are taken daily to the library, forming a "Continuous Exhibit" of which the special features have been iris, peonies, roses, gladioli, and zinnias. The arrangement of the flowers is regarded as an important part of the exhibits which are cared for by two of the librarians. The chief accomplishment of the Garden Club of Utica in 1922 was the assisting of persons interested in forming other garden clubs. The plans for 1923 include a broadening of the programs, beyond the immediate needs of home gardens, increasing the membership and arranging meetings in gardens.

THE Blue Ridge Garden Club, drawing its members mostly from the summer residents of the region between Hagerstown, Md. and Gettysburg, Pa., was founded in 1912, by Mrs. J. Appleton Wilson, of Baltimore, her successors in office being Mrs. J. S. Williams, of Richmond, Va., and Miss Margaret Ramsey, of Norfolk, Va. Mrs. T. S. Creighton is now the President, the term of office having been limited now to two years. There are 75 active and associate members who meet at private houses, fortnightly, from the end of June to the end of September. About half of the programs are prepared by the club members, chiefly on horticultural topics, such as "Small Fruits", "Roses", "Iris", and also "Native Wild Flowers". This last subject has been taken from the viewpoint of their preservation, by Mrs. Edward Burton, the Secretary of the Baltimore and Maryland Society for their preservation, and the Cultivation was treated by Dr. Edgar T. Wherry of the U. S. Department of Agriculture, who is Chairman of the District Chapter of the Society for the Wild Flower Preservation. Dr. Paul Bartsch, of the National Museum, gave a talk on "Native Ferns", and representatives from the Mt. Alto Forestry School addressed the club on "Fruit Trees, their Troubles and Cures", "Hard and Soft Wood Trees", "Vines", etc. At one meeting large branches of trees were used as illustrations. The club has planted maples and native fir trees along open roadsides and in Rolando Park. This park is a woodland tract of five acres with rocky hillsides, forming a natural rock-garden, and there are also springs and a brook. The club has developed paths throughout the district and has undertaken the care of the park. Other work conducted by a committee of the club is with the public schools, trying to interest the children in the natural beauty around them. Funds have been raised from a lecture on "Hawaii and its Flora," given by Mr. Otto Thielow, and a stereopticon was accordingly purchased. A winter resident member operates this stereopticon twice a month in the school, giving illustrated lectures on nature study. Money for renting the slides is also supplied by the club which in the Spring will distribute flower seeds to the children, at the same time offering prizes for the best garden, or specimens of flowers which they may produce from the seeds. "Bird Lore", the Audubon Society publication, is another contribution of the club to the School. A committee of members of the garden club was formed several years ago to collect flowers and fruit for the Maryland State Tuberculosis Sanatorium which is not far from the summer residents, and work has been continued during the winter, as money

is given to ship hundreds of sweet peas, calendulas, carnations, jonquils, roses, and spring flowers to the tuberculous patients. Many pots of pansies and hampers of Christmas Greens are also supplied. Under the efficient and enthusiastic management of Miss Anne Brui the work has steadily grown by the aid of non-members of the club and with the generous co-operation of some of the large wholesale growers. The flowers are taken to the sanatorium once a week during the summer and though not so often during the winter fruit is substituted part of the time. In addition to this activity the chief accomplishment of the members of the club is said to be the "arousing a deep interest in developing their own grounds, and the hedgeways and parks in the vicinity". There is a special committee for compiling data of the historic gardens in Pennsylvania and Maryland near the club. Horticultural efforts one season took the form of different annuals being grown by members who would exhibit them at a meeting giving their experiences. A number of the club have designed their own gardens. One of the most important plans for 1923 is interesting the native mountain children in the preservation of the wild flowers.

THE Garden Club of Englewood, N. J. whose President is Mrs. Frank Chapman, was organized in May, 1921, and has 50 active and 2 sustaining members, whose dues are five and twenty-five dollars respectively, personal work being expected of the active members from which class the sustaining membership is drawn. Meetings are held once a month during the winter and bi-monthly in summer, with a public meeting Spring and Fall, at one of which the subject of "The Preservation of the Native Trees and Flowers of New Jersey" was presented. In a published article, the President, Mrs. Chapman, states that morning meetings in the gardens of members have been customary, when the program consists of papers written by members or of "Talks on Personal Experiences". The club takes box luncheons to the home of the hostess who may serve a hot or cold drink. Upon occasions when trips are arranged to more distant special gardens a club committee sees that motors for transportation are provided. Mrs. Chapman further mentions that she considers it as very fortunate that a landscape architect was invited to visit and criticize the gardens of the members soon after the club was organized. A Fall Flower Show with "open classes" is held, and the exhibits of 1922 were so numerous and of such high quality that the value of the work done by the club was successfully demonstrated to the community. It is planned to hold a June Flower Show in 1923. One of the members, Mrs. Johnson, has won a reputation in hybridizing Iris.

THE Garden Club of Winter Park, Florida, after one year of existence as a Garden Committee of the Civics Department of the Winter Park "Women's Club", was organized in its present form in 1922. The President is Miss Grace O. Edwards, and there are 35 members all doing personal work in their gardens. The dues are one dollar. From October to June meetings are held in the homes of members who have conducted informal discussions on their own experiences in Florida gardening, where planting is done in September or October, instead of the Spring. This

(Continued on page 120)

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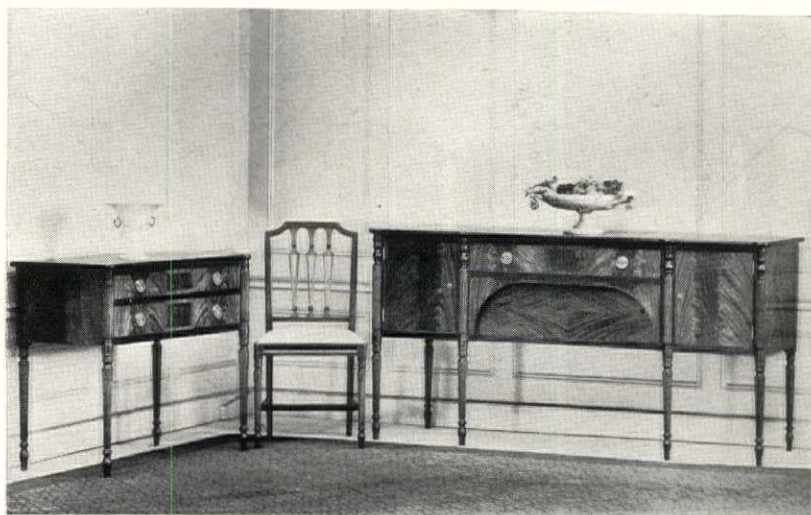
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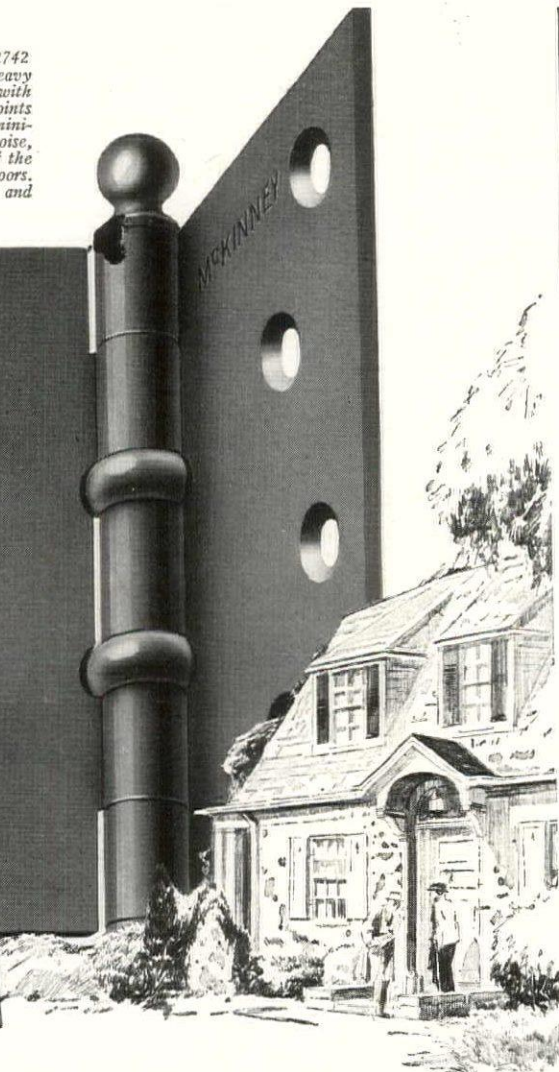
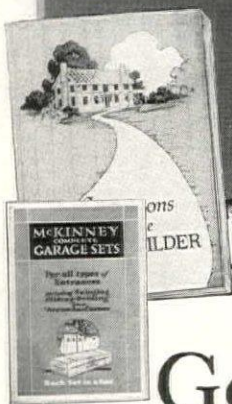
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Notes of the Garden Clubs

(Continued from page 118)

year, annuals, bulbous plants, rose culture, and "Shrubs and their Right Use" are to form part of the programs. In 1922 a Community Meeting was arranged, at which Mr. W. A. Cook, landscape architect, spoke on "Florida Flower Growing". The chief accomplishment of the club, while still in the form of the Garden Committee, was a Flower Show, of which the idea and success were due in large part to Miss Edwards, the present President, aided by her special Committee of Miss Alice Knox, Miss Munson, and Miss Anna Treat. An Oriental Tea-Garden arranged by Mrs. E. W. Packard of Greenwich, Conn., and Mrs. John Harris of Newburg-on-Hudson, proved to be completely artistic, even to a Chinese maiden playing on her native lute. Florida native plants, shrubs, trees and vines were employed in developing this Garden. In the main room of the Women's Club, where the Show was given, potted plants and flowers were used to represent a "formal" garden, in which a fountain and benches were placed. The flowers exhibited included Amaryllis, yellow and white calla lilies, orchids, hibiscus, gladioli, plumbago, double poinsettias, begonias, roses, violets and pansies, and sweet peas. Miss

Edwards showed a table of annuals. In the "Table Decorations", first honors went to Mrs. McDonald, second to Mrs. Hershy, and third to Miss Boynton and Miss Kingsley jointly. On one afternoon there were 700 visitors, and one evening Mrs. Potter showed her "Collection of Slides of Gardens". The open forum on gardens, conducted by Miss Edwards, afforded opportunity for questions and answers. In the numerous flower arrangements of the Show, the first, second, and third awards were received by Mrs. Freeman, Miss Peschmann and Mrs. Hennessy. The garden club plans another Flower Show in March, 1923, at which it hopes to exhibit miniature garden models as an inspiration to the study of landscape gardening. Also the club intends to have the trees and shrubs, in the public grounds of the town labelled botanically. Another plan is to gather together the experiences of the members in Florida planting which can be printed as a "Planting Primer", something especially needed. Two of the members have formal gardens and others are just designing their gardens, but so far most of the work is in experimenting, horticulturally, with the Florida climate and conditions.

ELLEN CUNNINGHAM

THE MAPLE TREE

IN that ancient gummy excrement, amber, many peculiar things are found which no longer have a counterpart in the world to-day. Even flowers and fruits of the maples have come down to us, excellently preserved in this unique material. From such finds we know that certain species of maples, now extinct, are closely related to those of other countries, while others have entirely disappeared.

To-day the maples are a stately family of trees with numerous representatives, most of which occur in the temperate zone. They are unassuming, quick growing and of wonderful form, so that they have become one of the most universal of shade trees.

The European mountain maple, *Acer pseudoplatanus*, reached a height of 90'. The trunk is tall and slender and carries a large well formed crown. Entire sites of these trees are found in Switzerland. Few diseases attack it and it withstands a most rigorous climate so that it is a very suitable street tree. As an individual tree it grows to its fullest beauty, but its varieties *euchlorum Leopoldi* with variegated leaves, *Simon Louis freres* and *foliis purpureus* develop it to its best advantage. Var. *Leopoldi* has red shoots, the leaves later turning a speckled white. This is more pronounced in the variety *Simoni*. The var. *atropurpureum* has the lower surface of its leaves colored a pale purple. Much more brighter is the sub-variety "Prince Handjery" with its rose to brick red upper surface and marbled green and grayish yellow under surface. This form is very slow growing so that it is especially adapted for smaller gardens. A much more rapid growing variety is the yellow leaved *worleii*.

Exceptionally unfavorable for this European mountain maple is stagnating water. On the other hand it drives its

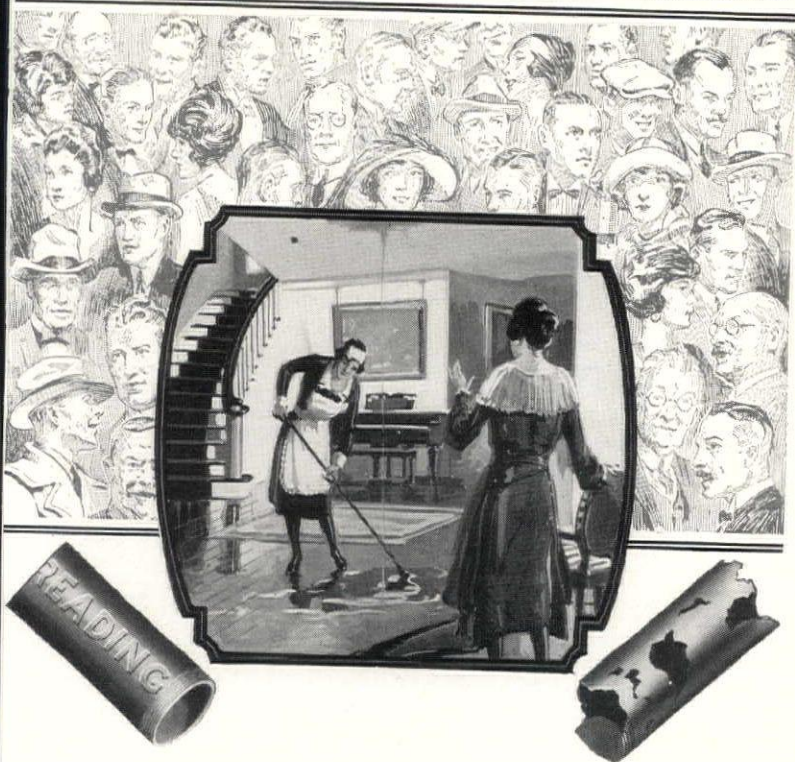
roots deeply into the ground. In its youth the tree is tolerant but becomes more and more intolerant of shade as it grows older. It grows rapidly in height for the first 25 years, then its growth is much slower and stops with its 90th year, although the life of this tree is about 400 years.

The seeds can be kept for about one year but germination takes place five weeks after sowing.

Acer platanoides, the Norway maple, attains the same height as the European mountain maple although it grows somewhat more slowly. The crown is rounded, densely interwoven with twigs, and covered with heavy dark green leaves which permit but little light to pass. It is practically immune to diseases although sometimes attacked by the leaf louse, *Periphyllus lyropictus*, which not only causes yellow spots to appear on the foliage, but also causes it to fall prematurely. The tree is tolerant and can be placed in a very damp soil as it withstands the action of stagnating waters. The buds unfold late in the spring and the leaves are kept far into the fall at which time they are colored a bright yellow.

Numerous varieties have been developed from the Norway maple. Variegated leaves with the edges a distinct yellow are produced by var. *foliis aureo marginatis*. Var. *Schwedleri* and var. *Reitenbachii* have reddish foliage. Var. *laciniatum* has finely slit leaves and in var. *dissectum* and var. *Lorbergi* it is still more pronounced. The variety *crispum* has a jagged and crinkly leaf. Exceptionally well adapted for individual plantings are the columnar variety var. *columnare*, the spherical crown developing var. *globosum*, and the short twigged, upright growing dwarfed form var. *pygmaeum*.

(Continued on page 122)



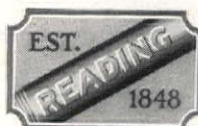
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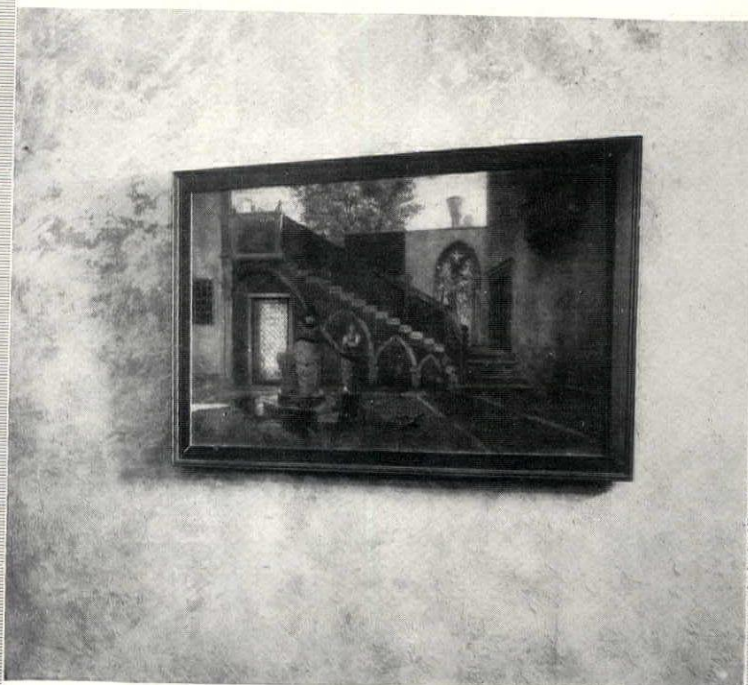
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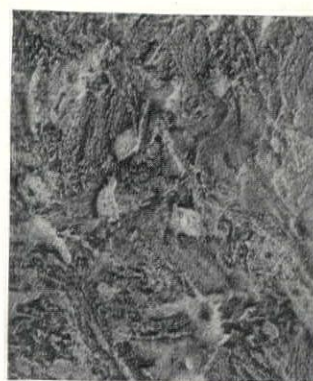
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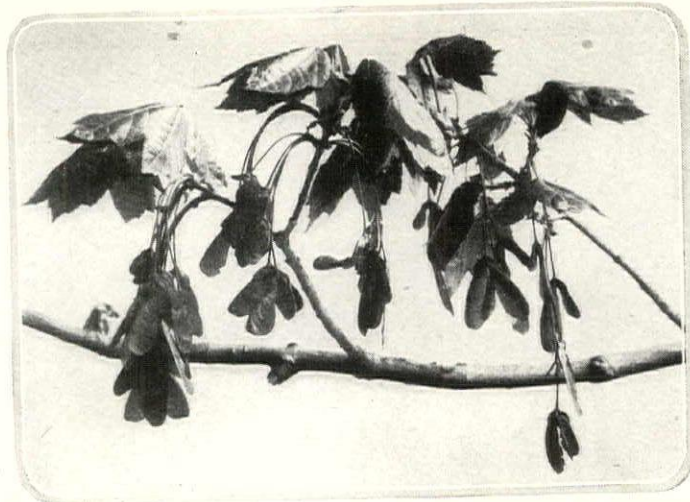
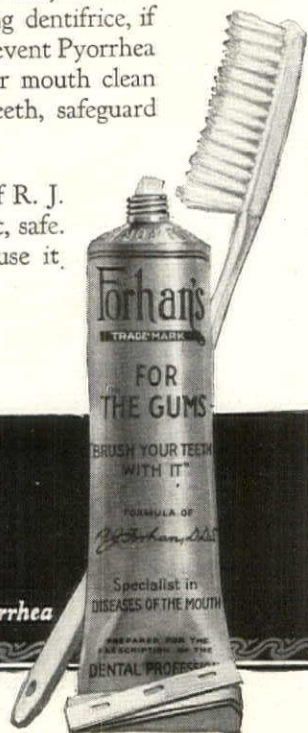
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The scarlet or swamp maple, *Acer rubrum*, is among the earliest to leaf; in the fall its foliage turns scarlet or orange. Suitable for street planting

The Maple Tree

(Continued from page 120)

Acer campestre of central Europe is often shrubby in appearance. The bark is somewhat corky, the protuberances running longitudinally and irregularly down the stem. It is an exceptionally slow growing maple, but on well situated places it may reach a height of 60'. In poor soil it seldom develops to more than a bush. The same is true for a shady place. Since it withstands the pruning knife, it can be used as a hedge, and under such conditions it produces an exceedingly pleasing one, thick, dense, and exceptionally lasting.

The box elder, *Acer negundo*, although it grows rapidly, is not a very tall tree. It does well in almost any type of soil but prefers a loose, moist, alluvial type. Since it is intolerant, it requires full light, at the same time it should be planted in protected situations as the twigs are easily broken by the wind. Its varieties are beautiful. Var. *odessanum* has a golden yellow foliage while the varieties *aureo variegatum* and *aureo marginatum elegans* have a yellow seam around their leaves. Var. *argento marginatum*, occurring both in pyramidal and bushy form, has green and white leaves. Strongly spotted with white is the var. *foliis argente variegatus*. This form grows but slowly through its lack of sufficient chlorophyll

and therefore is suitable for smaller gardens. The large leaved var. *violaceum* has lilac colored shoots which are exceptionally attractive during the winter. Narrow leaved and curly leaved forms are produced by var. *angustifolium* and *crispifolium* respectively. The var. *californicum* produces a white felt on the under surface of its leaf. It is a quick grower but the long fragile branches must be braced. At the same time this variety must be planted in a well protected situation since, in some years, the shoots do not come to maturity.

Acer monspessulanum, the French maple is used and cared for like *A. campestre*. It requires more light than this species, but is just as sluggish in its growth. In most favorable situations it may attain a height of 20' to 25'. *Acer obtusatum* is a much more rapid grower while *Acer tataricum* remains comparatively small but does develop a dense crown. The var. *laciniatum* is more to be preferred than the species itself as it is far more attractive in appearance.

The sugar maple, *Acer saccharum*, develops a large oval crown but grows rather slowly, averaging about a foot a year for the first 30 years. When

(Continued on page 124)



A moist, rich soil is required by the ash-leaf maple, *Acer negundo*. It is a rapid grower



The sycamore maple, *Acer pseudoplatanus*, is a large tree of spreading vigorous growth



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The new Ypsilanti designs for 1923 are the most attractive in the 20 years experience of this company in making reed and fibre furniture.

Their sheer beauty of form and finish make an instant appeal to women who give most thought to their home. The wide range of patterns give an unmatched variety.

The Ypsilanti Line is now on display in the furniture show rooms of leading merchants in every city. We will gladly give the names of merchants near you.

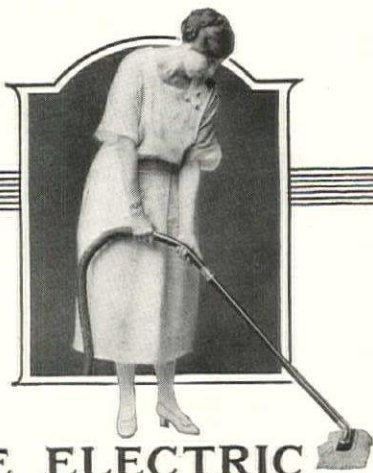
YPSILANTI REED FURNITURE COMPANY (Dept. C) Ionia, Mich.
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Reed and Fibre

FURNITURE

A NEW INVENTION for Cleaning Hardwood Floors



**THE ELECTRIC
VAC-MOP**
Absolutely
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WITH EACH
Electric
SWEeper-VAC
With Motor Driven Brush

MOP by vacuum! This latest Sweeper-Vac feature adds immeasurably to the already numerous advantages offered by the remarkable two-in-one Sweeper-Vac.

You can feel the bite and pull of the vacuum as the Vac-Mop thoroughly cleans tile, linoleum and hardwood floors. While cleaning and polishing the floors the VAC-MOP is cleaning itself. No shaking it out.

This valuable efficient and sanitary VAC-MOP, an exclusive Sweeper-Vac device, can be obtained absolutely without cost when you purchase an Electric Sweeper-Vac. You have always needed this two-in-one Sweeper-Vac. Now is the time to get it and with it this VAC-MOP absolutely free.

Two cleaners in one at the price of only one. Therein lies the great advantage of owning this guaranteed and approved Electric Sweeper-Vac cleaner. Not only does it clean by the ideal combination of powerful suction plus the gentle sweeping action of a correctly speeded motor-driven brush, but by a simple move of "that lever" it cleans also by powerful suction alone. This two-in-one feature has made the easy gliding, deep cleaning, Electric Sweeper-Vac universally famous.

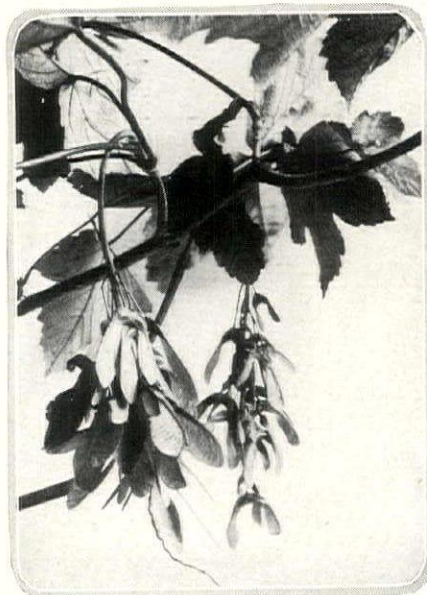
"A tribute to those lighting companies whose unceasing service makes electrical conveniences possible and whose unhampered development assures rapid growth to their supporting communities."



Act Now!! Mail this Coupon today

PNEUVAC CO.
168 Fremont St., Worcester, Mass.

With no obligation other than that which I owe myself to know about this marvelous invention, kindly send me descriptive literature of the Sweeper-Vac and Vac-Mop and also the name of your nearest dealer.



Compare these seed pods of the *Acer pseudoplatanus* with the later flowers on the previous page

The Maple Tree

(Continued from page 122)

fully grown it attains a height of about 100'. This tree requires a fertile soil free from stagnating waters but one which should be by no means dry. The young seedlings are very hardy, resistant, and tolerant and can be planted without injurious effects in the shade of the deciduous forest. This species is not adapted for individual plantings or shade trees. In such locations it suffers from the attack of insects. In the fall the leaves are colored red, yellow and green.

Acer saccharinum, the silver maple, is a very decorative ornamental tree both for streets and parks. It is a rapid grower, is unassuming in its demands upon the soil, is hardy, and can be planted in a very damp type of soil. It is very tolerant and is therefore used as a street tree although it is not so well adapted for this purpose since the wood is soft and fragile the twigs and branches being often broken by winter winds.

The most beautiful form of the silver maple is var. *Pendulum* with its weeping branches. Var. *aureo variegatum* has yellow spots on its leaves while the whole leaf of var. *lutescens* has this color. Var. *dissectifolium* produces a deeply slit leaf and var. *novum* has a curly leaf. An upright pyramidal form is developed by var. *pyramidalis*.

Acer pennsylvanicum, the striped

maple or moosewood, is an inhabitant of our woodland regions where it never grows more than 25' in height. Its beauty lies in its greenish-gray white striped bark of stem and branches. It is adapted for smaller gardens.

The red maple, *Acer rubrum*, is a large stately tree. The bright red flowers make their appearance early in the spring even before the leaves are developed and then cover the twigs like a fluffy down. The young leaves are also red, and so is the fruit. Early in fall the leaves begin to turn and assume all shades of red and reddish yellow.

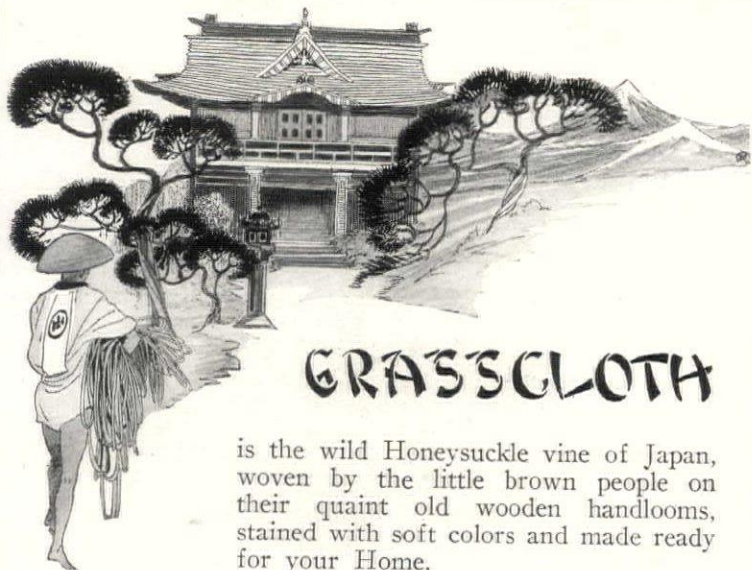
All the varieties are distinguished by their fiery autumn coloration and especially is this true of var. *schlesingeri* and var. *sanguineum*. Var. *drumondii* has large firm leaves which are densely tomentose on their lower surface. This variety is not so hardy in northern regions and should be placed in well protected situations. Smaller, obovate leaves with three short lobes and sparingly toothed is developed by var. *tridens* (*A. carolinianum*). This tree is hardy.

Acer spicatum, our mountain maple, is a small slender tree. In moist woodlands it forms a large bush. Its leaves are peculiarly shaped but otherwise there is nothing especially distinctive about this plant.

E. BADE



The Norway maple, *Acer platanoides*, prized for its pale yellow foliage in autumn and its round spreading head



GRASSCLOTH

is the wild Honeysuckle vine of Japan, woven by the little brown people on their quaint old wooden handlooms, stained with soft colors and made ready for your Home.

The natural sheen of the grass gives the wonderful lights and shadows of a most interesting Wall hanging, never detracting from the beauty of your furnishings, but rather like a background of trees to a beautiful garden, adding new beauty.

We would like to send you samples

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THE GIRL OF
GOOD LUCK

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A Lamp of Enduring Beauty

BEAUTY AND UTILITY are successfully combined in the creation of this graceful lamp. Appealingly priced, that it may be placed in the homes of the many rather than the few.

Finished in French Gold with gleaming high lights; shade of Champagne Silk, lined with pale Rose. A harmonious associate for room furnishings of many periods.

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Height 64 in.

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TWIN BEDS—\$33.00

These solid mahogany twin beds made with the honest, sincere dependability in materials and workmanship that distinguishes all products from the Detroit Furniture Shops.

The posts are 47½ inches high and 3 inches thick. The twin beds measure 3'3" wide. A full size bed in the same style 4'6" wide can be furnished. The side rails are 76 inches long. Special length rails can be furnished for \$3.00 per pair extra.

The price of the twin beds is \$33.00 each. The full size bed is \$37.00.

Detroit Furniture Shops

Warren at Riopelle,

Dept. D.

Detroit, Mich.

Clicquot Club

Pronounced Klee-Ko

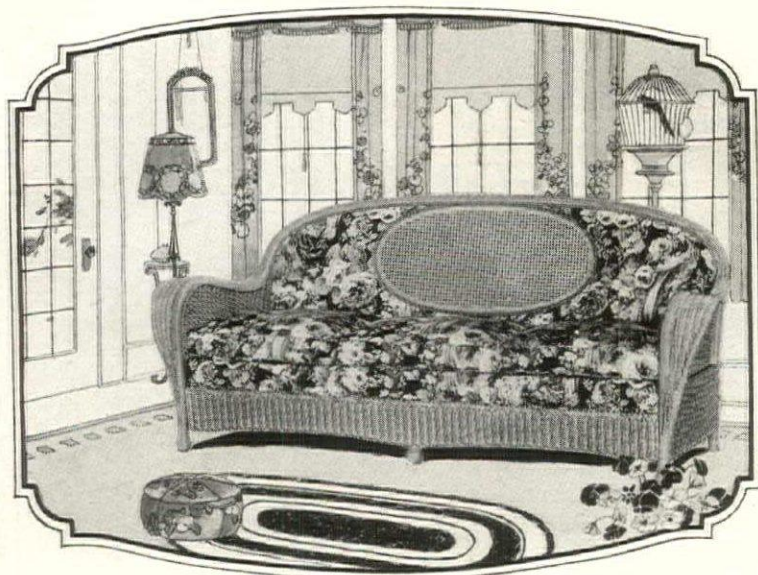
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that every-
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Bottlers of Clicquot Club Ginger
Ale, Sarsaparilla, Root Beer
and Birch Beer



Northfield

BED DAVENPORTS

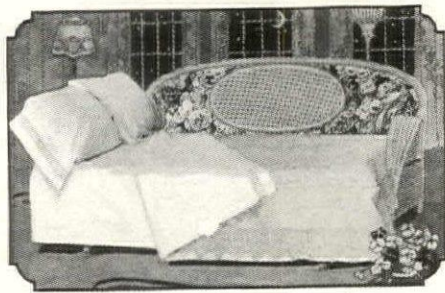
*For the Room
Where Old Sol Lives*

In the happy room where Old Sol coaxes you so often when other rooms seem dull, the furniture must harmonize with the sunny atmosphere.

A Northfield fibre davenport suite, with a bed folded compactly under the low, deep-cushioned davenport seat finds its happiest place in such a room. And the designs lend themselves wonderfully to colorful decorating, reflecting the spirit of the room, adding to its lure, completing it. No guest will know that a bed is in this room. Design and good workmanship conceal it, utterly. But when occasion makes an extra bed necessary, the bed is ready, without an extra bedroom.

Northfield designs are authoritatively expressive of the better furniture-style tendencies. Our Master Designers have made the convenient combination of davenport and bed both a thing of beauty and a comfortable, loungy piece of furniture. People of taste find it worthy of a place in well furnished homes. It is called "The Davenport With A Secret".

In some good furniture store near you, you will find Northfield fibre suites together with overstuffed and period suites on display. May we suggest a visit to this store?



The Northfield booklet, "The Davenport With A Secret" illustrates many attractive Northfield Bed-Davenport suites. A copy will be sent on request, together with the name of the nearest Northfield dealer. Please ask for your copy.

THE NORTHFIELD COMPANY
Makers of Good Furniture
SHEBOYGAN •• WISCONSIN

18th STREET AT MARTIN AVENUE

ANNUALS FOR SOUTHERN GARDENS

ALL THE annuals known to the trade from "A is for ageratum to Z is for zinnia," are available for Southern plantings and if there is one thing the gardeners of this section know how to do well it is to grow them. They seem, however, to have missed the point that discrimination and choice in the planting of annuals can be as effectively shown as in the groupings of shrubbery or the arrangement of the perennial borders. There are many charming and infinitely varied combinations. Few varieties rather than many should be used. Broad masses rather than long lines should be the choice. Colors should not be mixed unduly. Consider the foliage as well as the blossoms. These rules followed, and remembering that all annuals must have sunshine, proceed to fill in the gaps, cover the waste places and live through the summer months in a riot of color and bloom.

There are many new homes just ready for occupancy in the early spring where few, if any, permanent plantings can be made until fall. To such gardens annuals in wide choice are a boon of inestimable value. This is the only case, absolutely, where it is permissible to use these plantings for the foundation—and only for this one summer.

The walks and drives should be made, the lawns graded and planted, the shrubbery beds staked off and prepared just as for the permanent plantings, then filled with strong vigorous annuals that will hide the bareness and make pictures during the first trying season.

Where tall plantings are needed, in this or any other case, if strong colors can be used Klondyke cosmos is the most brilliant and beautiful of the annuals that bloom in the late fall. Nothing could be more effective against the boundaries or foundation lines or among the evergreen masses of the shrubbery, if the garden has been made already, than this sun-loving flower that is of the easiest culture and quickest growth.

All the cosmos are easy to grow, good to look at, fine for cutting and to use in the background anywhere. Keep them tied up and do not mix the pink and white varieties with tawny orange of the Klondyke. The cosmos are not heavy enough for a screen however, and if a tall hedge is needed use the Ricinus plant with Russian sunflowers. In the foreground miniature sunflowers will make the lower part of the hedge thicker and prolong the season of bloom indefinitely.

For a border for an entrance path or edgings anywhere pink verbenas and sweet alyssum are charming. A long sidewalk planting in calliopsis and blue larkspur was a color harmony of blue and gold for many weeks. Broad masses of petunias as well as verbenas and candytuft make lovely spots of color and brightness on the edge of the shrubberies or for vivid color in porch and window boxes. Wherever hanging plants of color or ground covers are needed petunias, verbenas, sweet alyssum and candytuft are sure to give good results.

All the zinnias are good these days except the old magenta that slips in with the scarlets and pinks occasionally in spite of all one can do. Heavy plantings of the giant and dwarf large flowering varieties give wonderful color effects during the heat of the summer when flowers are scarce and supply abundant cut flower material. White and salmon pink, light and dark scarlet, deep crimson, pale primrose, canary and orange yellows, carry one through a rich range of color and invite a careful

choice. Try a definite color scheme this season and see for yourself how much finer the result is than the usual mixed collection.

Nasturtiums in both tall and dwarf varieties are universal favorites for border edgings and porch boxes. They have a way of drying up about the middle of the summer and leaving ugly gaps in the borders or beds. Why not use them for an edging for the walks in the vegetable garden or in some part of the grounds not in full view of the street and where the strong nasturtium colors will not clash, as they nearly always do with the near-by annual plantings? They should be planted early in the places where they are to bloom and in soil that is not too rich. If the blossoms are cut daily the season will be much prolonged.

If room is at a premium why not use one annual for the summer's plantings? You have no idea, unless you have tried it, how delightful a picture you can make of your garden by using masses of marigolds, zinnias, bachelor's buttons, verbenas, dwarf sunflowers, ageratum and cosmos for the fall, calliopsis, candytuft and larkspur or Red Riding Hood zinnias for scarlet ribbons. One variety in gorgeous color splashes is the most satisfactory way to plant annuals.

All of the annuals mentioned above are of the simplest culture. They need only to be planted in a well-prepared seed bed, and summer rains and hot sunshine will do the rest. Not so easily can the finer annuals be grown. Asters are wonderful and not overly hard to grow but they must be taken care of all the time. Selection is purely a matter of personal preference but cut worms and mildew are prone to destroy the crop regardless of whether they are the finest or cheapest varieties. It is just as well not to plant asters in the most prominent positions in the garden. Use them among the perennials where they will not stand out strongly until the blooming time.

Delightful summer screens can be made with the quick-growing annual climbers. The Scarlet Runner beans and the white and purple hyacinth beans are strong and heavy growers. The Cardinal Climber and the old-fashioned cypress vines are more delicate and dainty both in foliage and flower. The former gives better results if a screen is desired. Of all the summer vines nothing is sweeter than the Moonflower of the evening and nothing lovelier than the Heavenly Blue morning glory of the early morning hours. Plant them wherever they can be used for they are exquisite.

Women's Clubs and civic organizations seeking to improve the vacant lots can do no better service to their towns than to take over a few vacant lots and plant them in a broadcasting of mixed annuals. Have the ground cleared of trash and rubbish. Spread a layer of stable manure. Have the lot ploughed deeply, then harrowed and hand raked until reasonably smooth. If the background is very unsightly cover it up with quick-growing vines or with Ricinus and sunflowers. For the foreground try this prescription for a broadcasting mixture: Zinnias in white, yellow and orange shades in both giant and dwarf large-flowering varieties, marigolds in tall and dwarf kinds, dwarf sunflowers, white candytuft, golden calliopsis, blue and white ageratum, straw flowers, *Helichrysum*, in mixed

(Continued on page 128)

The Chadakoin Gate Leg Table



Size 36 inches by 32 inches
Height 28 inches

MORE than a Hundred Years Ago, the pioneer cabinet-makers, who founded a great industry beside the banks of the Chadakoin amid the Old Chautauqua Hills, fabricated good furniture and established those high canons of faithful craftsmanship that are now evidenced in such good productions as the Chadakoin Gate Leg Table.

Based upon a time-proved design, this is a table of many uses; ideal as a center table with both leaves open; exquisite as a console with front leaf closed; delightful as a wall table with both leaves closed; an excellent tea or card table. Its finish is brown or antique mahogany

Price \$19.00

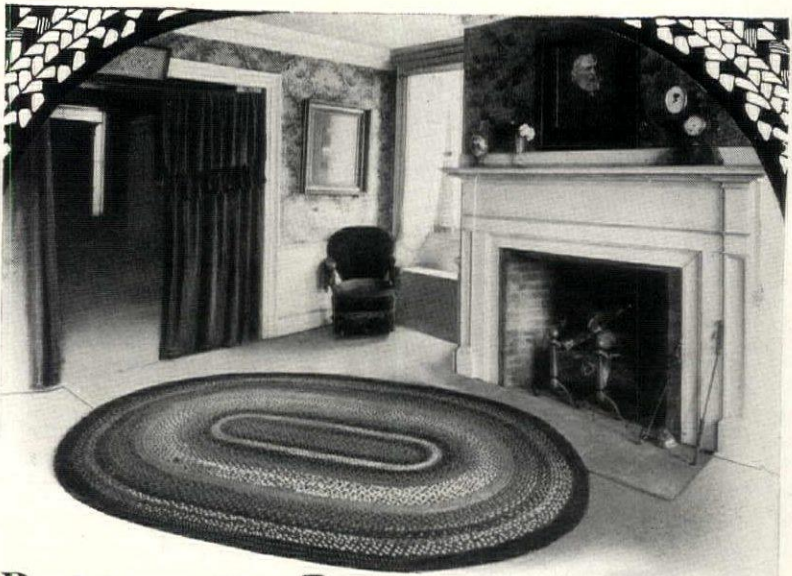
In ordering specify finish. Can also be sent to you in natural wood for your own finishing. Descriptive literature upon request.



Good Furniture Shops

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Jamestown, New York



Pinkham Home Braided Rugs

An open fireplace; a quaint, soft-toned, hand-braided rug cheerily stretched before it—what a friendly atmosphere!

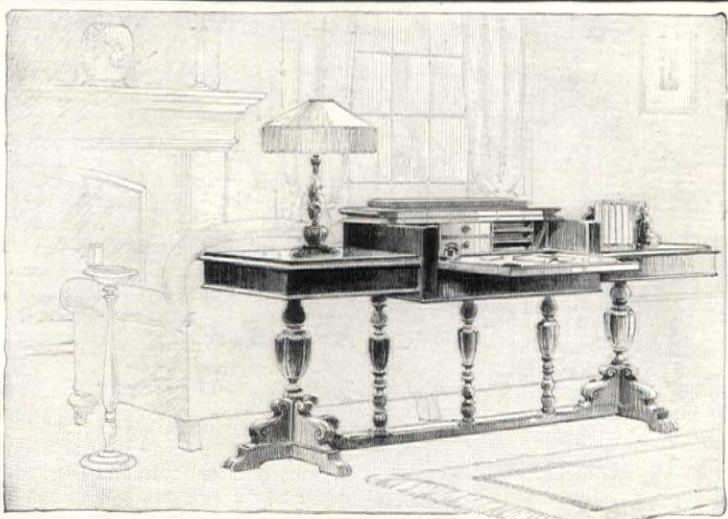
Pinkham Hand Braided Rugs are made in the homes of Pinkham "Associates"; they are the embodiment of loving thought and sentiment, for into each rug the maker has put something of her own sterling character.

Pinkham Rugs are hand sewed

throughout and are made of selected new materials, fast dyed in our own plant; the raw edges are rolled in to prevent ravellings. Both rounds and ovals, in fascinating color combinations.

At leading stores everywhere. For individual designs to suit furnishings, send samples of hangings and our artists will, without charge, submit color sketches of special patterns to harmonize.

PINKHAM ASSOCIATES, Inc., 3 Marginal Road, Portland, Me.



Vandome Desk Table

COMBINES BEAUTY AND CONVENIENCE



THE Vandome Desk Table is literally both a table and a desk. It combines in graceful unity the practical features of a spinet desk and the handsome dignity of a davenport table. Absolutely new and especially designed for those homes where lack of space prohibits the use of the two furnishings combined in the Vandome Desk Table.

Excellently made in the more popular period styles, Vandome Desk Tables will delight you with their double usefulness. You will find them very moderately priced. If your dealer doesn't show Vandome Desk Tables, write us at once.

Our beautifully illustrated booklet is yours for the asking. Send for it today.

H. E. SHAW FURNITURE COMPANY

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GRAND RAPIDS, MICHIGAN



For Homes of Good Taste

The Brambach Baby Grand has that air of quiet restraint which is so valued in well-done homes. It is exquisite in tone, beautiful in design. Its quality is unsurpassed. It can be accommodated in any home or apartment, for it

fits in the same space and costs no more than a high-grade upright piano. Sold by leading dealers everywhere.

Mail the coupon for Brochure and pattern of the Brambach to fit into your home.

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BRAMBACH PIANO CO.

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Please send me paper pattern showing size of the Brambach Baby Grand.

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Address.....

The BRAMBACH Baby Grand

THE BRAMBACH PIANO CO., 645 W. 49th St., New York
Makers of Baby Grand Pianos exclusively

Annuals for Southern Gardens

(Continued from page 126)

colors, *Kochia*, or use salmon pink and red tones of the zinnias instead of the yellow and add to the fall flowering masses *Celosia*. Mix the seed well and then plant as if it were lawn grass seed. Rake in carefully and then take a few weeks off. The seedlings will have covered the earth. Let them crowd enough to kill out the weeds.

Such a planting can also be well made on the home grounds if there are large open spaces available. The above mixture is for a flowering season from early summer to late fall. In the autumn another mixture can be sown that will insure blossom from the earliest spring and once planted the whole thing

will seed itself. Just as soon as the stronger vigorous plants have finished blooming take them out. Then the weaker ones will come right along and the harvest will be continuous. If such a planting happens to be along an automobile highway it will be a wonderful asset and advertisement to a town, for the rich returns of beauty will bring joy not only to those who achieved it but pleasure to all who pass that way.

Southern gardeners wishing help can have their problems solved by addressing the author of this article, care House & Garden.

JULIA LESTER DILLON

THE OUT-DOOR FORCING FRAME

AFTER the early-vegetable enthusiast has taken care of the seeds which need to be started in the window forcing box of the hotbed he should turn his attention to the possibilities of the portable container. This is usually considered as a place in which to winter over lettuce or perennials, but it may be used with very satisfactory results for peas, corn, string beans, beets, carrots, etc., producing crops at least ten days ahead of the usual early yield. A convenient size is 6' x 12', covered with four 3' x 6' sashes, and one may have as many of these as the size of his household demands.

This frame calls for three 12' planks 12" wide and 1" thick; 42' of 1" x 2" strips; four 2" T hinges; eight 3/4" screw eyes, and four iron pins or old bolts. Two of the planks form the sides, the third cut in 2' 10" lengths, the ends, the two inches being taken off to allow for the overlap of the sashes. These planks are joined at opposite corners on the inside by a hinge top and bottom which makes it possible to fold an end and a side together when stored away. The other two corners should be furnished with two sets of overlapping eyes through which the bolt or pin is to be dropped when the frame is set up. It would be well to guard against the possibility of warping by reinforcing the ends of the planks with narrow strips screwed from the outside. Join all corners so that the outside measurements will tally with those of the sashes.

To brace the frame, and also to facilitate the handling of the sash, counter-sink three 1" x 2" strips from front to back 3' apart so they will come under the joining of the sashes, and attach them to the frame with screws, which may be readily removed. The upper edges of the ends and back should also have 1" x 2" strips screwed on the outside, extending 1" above the frame to avoid unnecessary draughts and cold. Leave the front plain in order to slide the sashes back and forth more easily. One or even two coats of paint will more than repay the cost by greatly prolonging the life of the frame.

When placing the frame for use, slant it just enough toward the front to allow the rain to run off. Three or four inches drop will be quite sufficient. The ideal location is under the southeast wall of some building against late cold winds but will also reflect a good deal of heat during the day.

The soil should be well drained and heavily enriched. Unless already well supplied with humus, seed it to rye in October, put the frames and glasses in

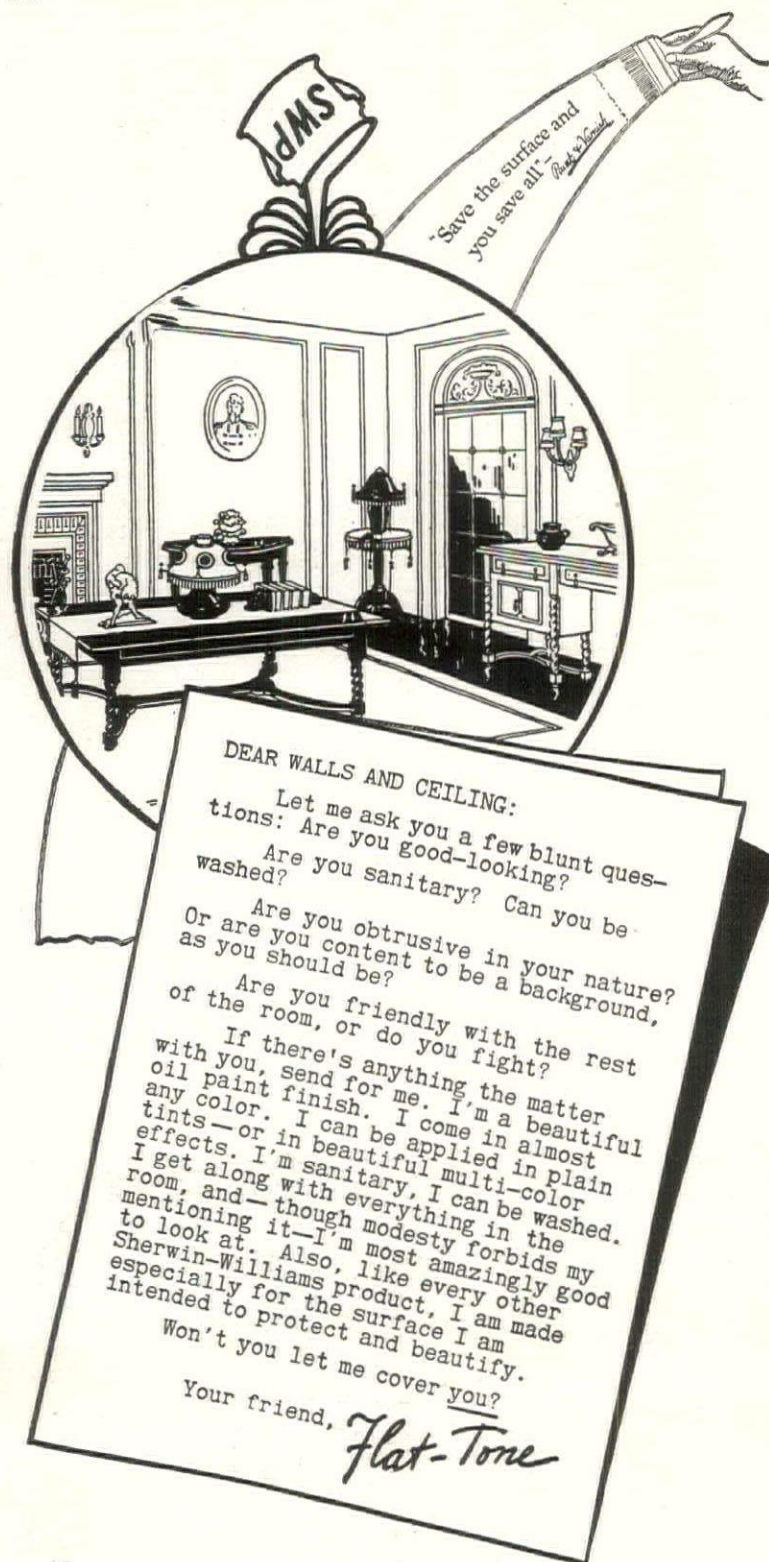
place about the middle of March, and as soon as the ground is thawed out cover with well rotted manure and spade it all under.

Seed may be sown as soon as the ground is warm, according to the season, and varied to suit the preference of the gardener. A suggested planting is one sash of three lengthwise rows of early French forcing carrots 1' apart, another of three rows of one of the extra early string beans; another of three rows of early beets; and the fourth will accommodate three rows of Golden Bantam corn. Before planting the carrots and beets tramp the soil down hard with the back of the rake, forming a narrow trench in which the seed will naturally fall into straight lines. After these are covered with the usual 1/2" or 3/4", firm the soil again so that the fine roots will encounter no air spaces when they first start. Failure to do this probably accounts for the apparently poor germination of many of the smaller seeds. Set the beans 2' apart and thin to 4" as soon as the plants are large enough to show which are the strongest. The beets should be thinned to 3", the carrots to 2". Plant the corn in trenches 4" or 5" deep after the seed is covered, and hill up with outside soil as necessary. The plant should stand about 8" apart in the row.

Such close planting means of course very careful and very constant cultivation, also a generous supply of liquid food and stimulant. The frequency of these applications will depend upon the amount of nourishment in the soil, but under any conditions it will be well to water every two weeks after the fourth or fifth leaves are out with a solution of nitrate of soda, 1/2 teaspoonful to five gallons of water. If anything shows signs of lack of food, apply manure water a little darker than an English walnut shell on the alternate week. This is easily made by steeping a little fresh manure in a pail of hot water and diluting it to the desired strength. In making both of these applications remove the rose from the watering-pot as there is no use wasting good root food on the foliage.

Care must be taken to give plenty of fresh air. Raise the sashes every possible day as high as weather condition permit. Short pieces of 2' x 4' are very convenient for the purpose, as they give three different heights by their three dimensions. During a warm spring rain the sashes should be lifted entirely from the frames, and as the days grow mild and settled the whole protection should be removed.

MARY NELM



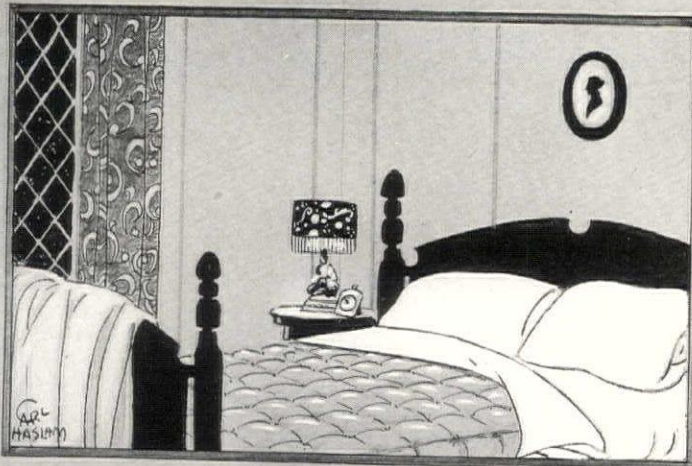
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These Protectors are made of the best quality of material.

Wash them as often as you like—they remain smooth and soft. Made in all sizes to fit any bed or crib.

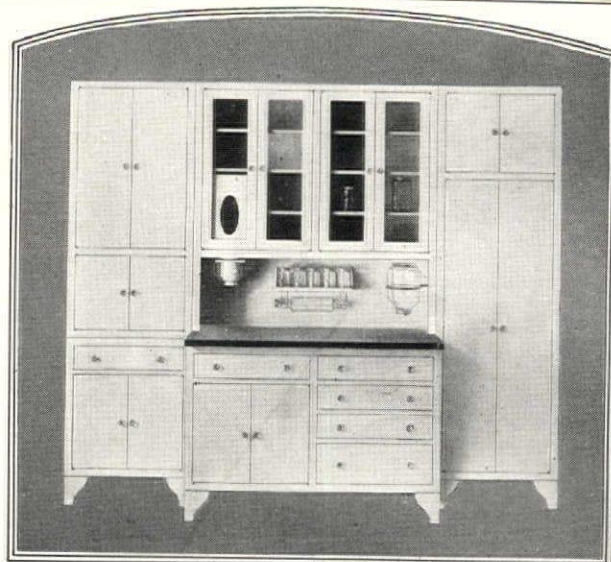
We were the originators of MATTRESS PROTECTORS. Back of them stands the reputation of thirty-one years continued manufacturing.



When purchasing, ask for the EXCELSIOR QUILTING CO.'S MATTRESS PROTECTORS. Our trade-mark is sewed in the corner of each PROTECTOR.

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NEW YORK CITY



The WHITE HOUSE Line SECTIONAL UNIT STEEL DRESSERS

THE above arrangement of WHITE HOUSE Units shows our No. 50 Dresser, flanked by a Side Unit (on left) and a Broom Closet (on right). This combination is ideally suited to the kitchen requirements of the moderate-sized home.

The illustration itself suggests the exceptional utility of such a combination, but to really appreciate the endless little conveniences of efficient arrangement as well as the

perfection of workmanship, and to realize the advantages of steel as against wooden construction, you must actually see WHITE HOUSE Dressers.

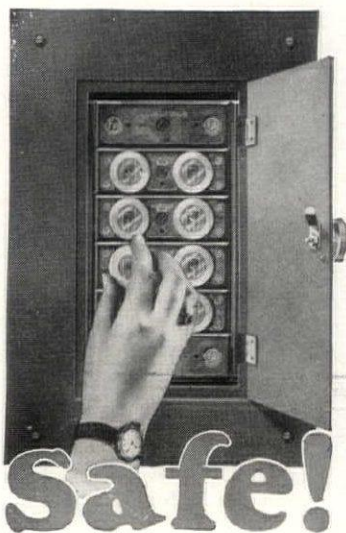
WHITE HOUSE Dressers are entirely of steel, making them pest-proof and odorless; the finish is white enamel, baked on. Stop in at our showrooms, or write for our illustrated catalog on The WHITE HOUSE Line.

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Established 1840

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Residence Panelboard

You will be interested in "Wiring the Home For Comfort and Convenience" which will give you some valuable information on home wiring, as well as information about the Type "R". This booklet will be sent free upon request.

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Every home must have a panel board. Learn about the safety and other unusual features of the new Type "R" Residence Panel Board, that not only gives better service but really costs less to install.

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Major System of Theatre Lighting Control; Triumph Line of Safety Type, Standardized Panel Boards and Cabinets; knife switches; safety switches; hanger outlets; reversible-cover floor boxes; A. C. and D. C. Distribution Switchboards.



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IN every home each day there are scores of things you wish to dispose of, such as wilted flowers, sweepings, cigar ashes, broken crockery, tin cans and garbage. That's what the Kernerator is for. Dropped into its hopper door in the flue, this waste material falls down into the brick incinerator built into the chimney, where it burns without odor. No operating cost, for the refuse itself is the only fuel required. Non-combustibles are removed with the ashes. The Kernerator eliminates the unsanitary garbage can and unsightly refuse receptacle.

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Built-in-the-Chimney

Reg. U. S. Patent Office

MOTT



A Clear Floor for Easy Cleaning

The idea is so perfectly reasonable—Why have an Enameled Iron Sink on legs, when, with the Special Mott Hanger it may be hung on any type of wall with absolute security?

Besides the advantage of easy cleaning, the sink without legs may be set at any height desired to suit your individual requirements.

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And All Principal Cities

Established 1828



A bird and flower painting by an unknown artist of the Sung-Yuan Dynasty. This and the other illustrations from the Metropolitan Museum of Art

The Bird-and-Flower Paintings of China

(Continued from page 66)

the chrysanthemum became special studies each of which had its own masters, both from the standpoint of painting itself, and of the application of the aesthetic rules which govern this art. The bamboo and the plum tree are also allied to this class. Under the influence of philosophic and symbolic ideas they furnished a special category of subjects to the imagination of the painter."

With the Chinese artist memory played a highly important part, reaching, indeed, a phenomenal development. In the case of Chou Shun, a great Chinese painter of the Sung Dynasty (A. D. 960-1280), the Chinese artist more often than not dispensed with what an artist of the Western world would consider necessary in the evolution of a masterpiece, the preliminary sketches. An ancient Chinese painter once said "The painter should sketch with his brain."

Perhaps we may best approach the subject of Chinese painting by some consideration of Chinese calligraphy which gave it birth, since, in the minds of the early Chinese painters, the two were inseparable.

The Chinese legend of the origin of writing is that in times remote a thoughtful person named Ts'ang Chieh took great delight in studying the natural forms of things. There was nothing under the heavens which came under his observation that he neglected to give thoughtful attention to. The flowers of the hedgerow and the birds of the forest were alike dear to him. One day,

as he strolled along the white sandy shore of a little lake, the footprints of a water bird arrested his attention. Suddenly an idea came to him that speech could be recorded by representative symbols for words, such a mark as the footprint he had just observed to stand as a symbol for water bird, etc., and thus, according to Chinese legend, the art of writing was conceived.

As time went on Ts'ang Chieh's invention underwent improvements, while the invention of paper, credited to Ts'ai Lun, gave Ts'ang Chieh's followers a material on which their handwriting could exercise its development freely in attaining ultimate perfection.

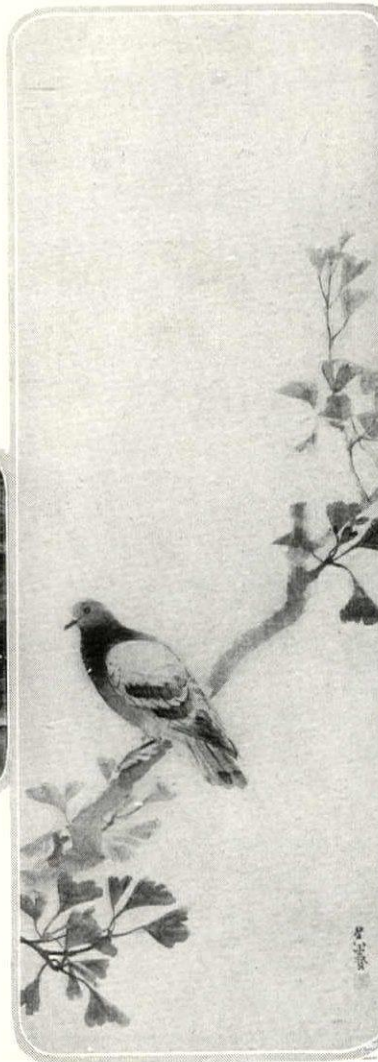
Now painting has always been regarded by the Chinese as a branch of calligraphy.

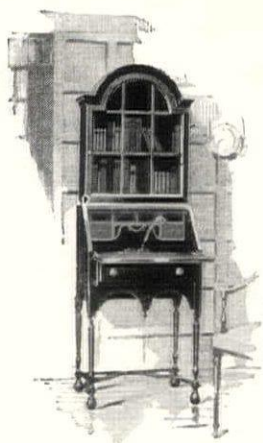
(Continued on page 132)



Nam Pin Chin-sen was the painter of this panel. 1745 A. D.

Painting by the Emperor Hin Tsung, 1282-1135, founder of the Academy of Calligraphy and Painting





\$56.00

This charming walnut or mahogany desk of the William and Mary period design is built with the sturdy dependability and the honest, sincere workmanship which has made the products of the Detroit Furniture Shops famous throughout the country.

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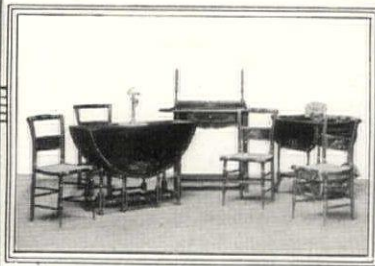
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DEPT. G



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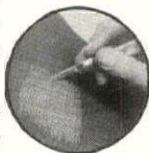
A well-known decorator, writing of windows, asserts that "to look upon the shades merely as 'shades' is a mistake. They can do so much to make or mar the charm of the window effect—and indeed of the whole room!"

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filling that in ordinary window shades so soon falls out, causing cracks and pinholes. Experts finish Brenlin by hand and apply with the utmost care the beautiful colors that resist fading by the sun and defy stains by water. If you wish a different color on each side, get Brenlin Duplex for perfect color harmony.



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Look for the name Brenlin perforated or embossed on the edge. If you don't know where to get this long-wearing shade material, write us; we'll see that you are supplied.

"How to shade and decorate your windows correctly"—free

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For windows of less importance Camargo or Empire shades give you best value in shades made the ordinary way.

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HAND MADE
Brenlin
the long-wearing
WINDOW SHADE material

The Bird-and-Flower Paintings of China

(Continued from page 130)

graphy, and not, as with us, as an independent art, sister to sculpture and architecture. This important fact must be borne in mind in any consideration, even the slightest, of Chinese painting. Classical Chinese painters were, above all things "literary." The Chinese painter sought to convey through his brush stroke some hint, suggestion, or invitation to seek the inner meaning, the soul of things. His, indeed, was a subjective art, as opposed to our own occidental objective art, or the art which seeks to convey to the spectator the illusion of nature's external appearances. Such realism for its own sake alone Chinese painters took into little account. The pictographs which were forerunners of the ideographs and the final phonograms forming the characters of the monosyllabic Chinese written language suggest the connecting link in the Chinese mind between painting and calligraphy. The Oriental mind demanded that fine thoughts be dignified by expression in fine writing, and calligraphers came to vie with one another in their desire to produce expressive brush strokes leading to that marvelous Chinese writing whose subtleties are never, perhaps, fully to be comprehended by the Western mind, no matter what enthusiasm the occidental may hold for the orient. Indeed, to understand Chinese art at all, one must be capable of a certain detachment from our own occidental cultural ideas and seek to see things through the eyes of Chinese philosophy.

EARLY NATURE STUDIES

The Chinese painters of the earlier period devoted themselves to the study of Nature. Such were the artists of the Tang Dynasty (A. D. 618-607) and of the Five Dynasties of later Liang, Tang, Chiu, Han and Chou (907-960), who found great inspiration in the example of Quan Mu Ch'i, painter, poet and musician, whose precepts led the Eighth and the Ninth Century Chinese painters to court nature. The Sung Dynasty which followed (Northern Sung: 960-1127; Southern Sung 1127-1280) was also a golden age in Chinese art. But in succeeding dynasties the admiration of their artists for the works of the masters who had preceded them and whom they, in a manner, worshipped, led to their adopting a somewhat imitative style. This very devotion to the style of the earlier masters caused the later Chinese painters to depend too much on their manner, and forgetting their precepts, they themselves began to neglect somewhat that intensive study of Nature which had brought their predecessors to the pinnacle of accomplishment. But so it is with the art of any land.

In Kuo Hsi's treatise on painting we find written: "Those who study flower painting take a single stalk and put it into a deep receptacle, and then examine it from above, thus seeing it from all points of view. Those who study bamboo painting take a stalk of bamboo and on a moonlight night project its shadow on a piece of white silk on a wall; the true form of the bamboo is thus brought out. It is the same with landscape painting. The artist must place himself in communion with his hills and with his streams." I do not mean to say that all artists after Sung forgot nature, but art after that period suffered a decline that suggests that imitation and extreme artificialities came to crowd the more spiritual works of the earlier Chinese masters. It was after Sung that specialization came to be so systematized; one artist confined himself to some

phase of snow effects, another to cypresses, another to bamboos, still another to trees bending under a weight of snow, and so on. The famous Li Ti bent his energies to the delineation of bullfinches, bamboos and rocks, while Chong Jen gave himself to delineating plum branches in blossom.

THE DECADENCE

By the time we reach the Mongolian dynasty of Yuan (1368-1644), Chinese painting entered well upon its decline. From 1368 to 1488 Chinese painting was, as an English critic has put it, "Without great eminence, but without decay." The substitution of imitation of the earlier masters for the earlier direct study of nature was, of course, responsible for this decadence from 1488 onward. This reminds one of Su Tung-p'o's saying that "To copy the masterpieces of antiquity is only to grovel among the dust and husks."

In the reign of the Emperor Yung Ching (1723-1726) some improvement in art is to be noted, but it was not far-reaching. We must remember that Chinese landscape art anticipates that of Europe by several centuries. Of their figure studies Anderson aptly remarks: "Although their work was often rich in vigour and expression, they certainly fell immeasurably below the Greeks; but to counterbalance this defect, no other artists, except those of Japan, have ever infused into delineations of bird life one tithe of the vitality and action to be seen in the Chinese portraits of the crow, the sparrow, the crane, and a hundred other varieties of the feathered race. In flowers the Chinese were less successful, owing to the absence of true chiaroscuro, but they were able to evolve a better picture of a single spray of blossoms than many a Western painter from all the treasures of a conservatory." Even Anderson does not here appear to be able to detach himself from the occidental viewpoint and thoroughly to understand the *Hua niao* paintings of the Chinese artists he nevertheless so greatly venerates.

NATURE LEGENDS

The group formed by the Bird-and-Flower paintings of China constitute as distinct a division of pictorial art as did the dining room fruit pieces of the glorious mid-Victorian period, or the flower pieces of the Dutch masters of bygone centuries. In China the popularity of the *Hua niao* subjects was very great, and perhaps no people the world over has been more passionately fond of bird study and of flower study than has the Chinese, a love only equalled by that of the Japanese. For the Chinese, every flower holds special significance, every bird suggests to the Chinese mind some legend, some illusion, some poetic association. These Bird-and-Flower paintings, attractive and decorative as they appear to occidental eyes, carry with them an inner meaning that naturally would escape the knowledge of any but the oriental versed in the lore of his land, the poetry of his province. A painting of a red cockatoo needs for its fuller appreciation a knowledge of the famous Chinese poem of that name written by Po Chü-i who lived A. D. 772-846 (T'ang Dynasty), a poem admirably translated by Arthur Waley in his "170 Chinese Poems" as follows:

"Sent as a present from Annam—
A red cockatoo.
Coloured like the peach-tree blossom,
Speaking with the speech of men.

(Continued on page 134)

Snow White

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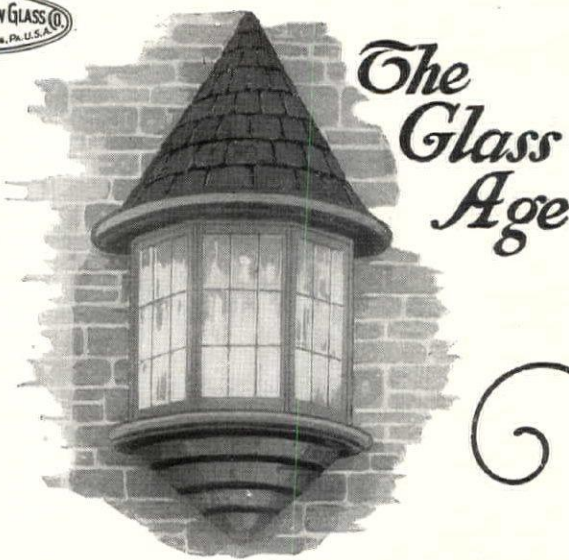
Hard-n-tyte is sold in 10 lb. packages. 10 pounds is sufficient to treat about 400 square feet and its cost is \$7.50, parcel post or express prepaid. Send us your check for the amount required. If Hard-n-tyte doesn't dry up your basement, your money will be refunded!



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CENTURIES span the gulf of time between this beautiful, Gothic, windowed-glassed sun-cove and the glassless, narrow slotted bay of medieval days. Truly we have progressed.

The openings which were first meant for defence in keeping enemies out are now ever increasing in size and number to let the sunshine in. The more clear-visioned windows, the more life and health-giving sunshine.

Better window glass alone has made this possible and in the van is *American Window Glass* of consistently higher quality than the correspondingly marked grades or ordinary glass. For all glazing purposes insist that the above mark be on every box.

AMERICAN WINDOW GLASS CO.
GENERAL OFFICES: PITTSBURGH, PA. BRANCHES IN PRINCIPAL CITIES



Casement Satisfaction
means "No Rattle"—
even with Winter Winds

**MONARCH
Control-lock**

No Gears—No Ratchets—
No Keys—No Rattle

Permits casement windows to be easily opened or closed and securely locked, in one continuous movement, without disturbing drapes. Sold by hardware dealers everywhere.

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OLD Hampshire
Stationery is suitable for all social requirements. Its fine texture and beautiful finish give it that air of refinement desired by people of good taste.

Offered in three styles—Lawn, Vellum and Bond. A box of Old Hampshire Bond is shown above.

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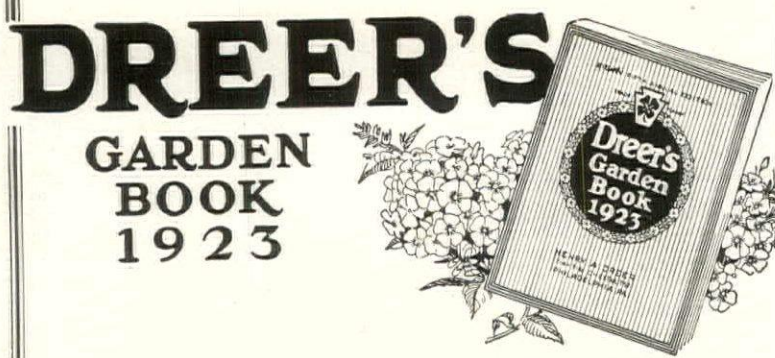
Old Hampshire Bond is a crisp, crackly paper that feels good to the touch and is unusually friendly to pen and ink. In quire boxes (24 sheets and 24 envelopes). Also, quarter reams (125 sheets) and $\frac{3}{8}$ M envelopes (125 envelopes) in several sizes and styles. Price, \$1.00 the box and upward.

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HENRY A. DREER

714-716 Chestnut Street

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Write today for a copy, which will be mailed free if you mention this publication.

The Bird-and-Flower Paintings of China

(Continued from page 132)

And they did to it what is always done
To the learned and eloquent.
They took a cage with stout bars
And shut it up inside."
I recall a very beautiful Chinese Bird-and-Flower painting depicting a pheasant and wild mallows, and I learned from a Chinese scholar that this subject carried allusion to an ancient Chinese poem of the First Century B. C. relating the story of the return after fourscore years, absence in the Emperor's service of a soldier to his native village where he found his old house a ruin overgrown with verdure, rabbits running in at the doghole, pheasants flying down from the roof beams, the courtyard overgrown with wild grain, and mallows choking the old well. The aged soldier looked around sorrowfully and lamented: "Of the wild grain can I porridge make, of the mallows broth, but who will share the feast with me!" Then he turned towards the East and tears fell upon his sleeve.
Before me as I write I have a lovely little Chinese Bird-and-Flower painting on silk, the bird depicted is an oriole. Briefly the allusion seems to be to Po Chü-i's lovely poem in which the song of the oriole at home is recalled to the poet by hearing, in his dreary Hsün-yang exile, the song of another oriole. While the notes of the bird of memory seem to be sweeter than those of the bird now singing, the poet reflects that the difference really lies in the heart, and that if one could but forget that he lived at the end of the world, the song of this oriole would really sound as sweet to him as did that of the bird at home in the gardens of Ch'ang-an Palace.
These instances well illustrate how differently oriental and occidental painters go about their subjects. Our Western painters would seek objectively to evoke emotion by depicting definitely some scene from the story. The Chinese artist subtly, deftly opens to the imagination the world of fancies. Some of the very artificialities of later Chinese poetry were seized upon equally by Chinese Bird-and-Flower painters and when the use of elegant synonyms which came to be so dear to the Chinese litterateurs gave to the sun such names as "Crow-in-flight," we find the Chinese painters depicting a flying crow and some blossom accompaniment, an allusion, you will see, to some legend of the sun, and not to the crow at all! I confess it is all very confusing to the occidental but it is extremely interesting to attempt to dip into the mysteries of the *Hua niao*.

Motors in the Home

(Continued from page 85)

it is designed, and the voltage.
Inquire of your power company what is the frequency of the circuit that supplies your house. It is probably either 25, 40 or 60 cycles. See that the motor is built for operation on the frequency used in your town or your special district if in a large town.
The pressure of the electricity in the circuit is expressed in volts, just as the water pressure in the pipes is expressed in pounds. Motors are designed to run by current of a specified voltage, usually, in household devices, either 110 or 220. Make sure, therefore, that the motor you buy is rated in accordance with the voltage employed in your city.
There is a motor called the "Universal." But it should not be assumed from the name that it can be attached to any circuit, or that it will run anything. It means that it can be run by either alternating or direct current, and in the case of the former, on a limited range of frequencies, including 60 cycles, and at the voltage marked on its name plate which please note on purchase. In general, a universal motor is used on appliances where variations in speed with changes in load, (that is changes in the amount of work the machine is called to do, as when a washing machine motor is shifted from washing to wringing the clothes or when great thicknesses are wrung out), are not great enough to be objectionable; as for example, in a vacuum cleaner or a ventilating fan. In the case of the household type washing machine, the variation in load is great, and the resultant variation in speed objectionable, making the use of the universal motor impracticable.
If added information on the characteristics and types of motors is desired, the reader is referred to the writer's book, "Cheating the Junk Pile" which has just been published.
When you don't know the details, such as the voltage, frequency, etc., used in the house circuits of your city, ask your light and power company. This cannot be too strongly emphasized. It will prevent expense and save time and money.
SIZES IN MOTORS
Motors come from 1/200th horse power up to 8000 horse power but the home is interested only in the smaller sizes, up to 1 HP: 1/4 HP. being the usual high spot struck in the home, and the low spot 1/40th HP, used for hair dryers and such things.
Because you see these motors doing rather heavy and important work you are prone to think their use is costly. But quite the reverse is true; a motor driven device is far from expensive. Witness these impressive figures—which of course it gives us wild joy to record for you:—

Cost	Article	Hour
10 cts per KWHR	50 watt lamp	.5 cent
" " " "	40 watt lamp	.4 cent
" " " "	25 watt lamp	.25 cent
" " " "	15 watt lamp	.15 cent

Therefore a
50 watt lamp may be operated 2 hours for 1 cent
40 watt lamp may be operated 2.5 hours for 1 cent
25 watt lamp may be operated 4 hours for 1 cent
15 watt lamp may be operated 5 hours for 1 cent
This isn't a heart breaking or purse breaking performance is it?
Now consider the electric fans, because they have a motor to move them.
9" fan runs for 3 hours for 1 cent
12" " " 2 " " 1 "
16" " " 1.5 " " 1 "
Therefore it costs you the same to run a 12" fan as it does to run a 50 watt lamp.
The vacuum cleaner consumes about 160 watts per hour. At 10 cents per kilowatt hour it costs about one and six-tenths of a cent per hour to run it, or it can be used two-thirds of an hour for one cent and 10 cents per KWHR is a fairly high rate. In some places it is lower.
You can easily gauge the cost of your vacuum cleaner by the hours you use it.
THE WASHER
"Ah!" you say, "here is where the
(Continued on page 138)

GROW CONARD ROSES

Guaranteed to Bloom

A CONARD ROSE, guaranteed to bloom, costs no more than any rose sufficiently good to have a place in your garden.

A Conard Rose requires no more of your time to plant and grow than an ordinary rose with no individuality or guarantee.

A Conard Rose *does* give you better and more lasting results.

Every Conard Star Rose is selected, nurtured and shipped to you with extreme care bred from over 50 years of scientific rose growing and a knowledge of your needs.

Why run the risk of having roses that have been dug carelessly, stored poorly, then neglected and packed poorly—with vitality so reduced as to make but weak growth, when you can have genuine Conard Roses, *guaranteed to bloom*.

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If you will send us \$1.50, we shall mail you a copy of "HOW TO GROW ROSES" by Robert Pyle, President of the American Rose Society—a cloth bound book of about 200 pages, covering all phases of rose culture.

To every Conard Star Rose plant is wired a durable, celluloid star tag, printed with the name of the rose—a big convenience in your garden—also a definite reminder of our guarantee. No other roses have this label.



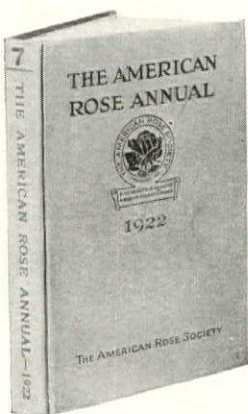
To Assure You Success in your Rose Gardening

THE American Rose Society was formed to help you to grow better roses in your garden, by syndicating the inspiration and experiences of thousands of rose lovers like yourself.

"To have roses in your garden, you must first have them in your heart." Likewise to enjoy the utmost success, you must enjoy the fullest knowledge of rose culture and rose varieties. If you love roses, if you have a garden, you will enjoy the fellowship and enthusiasm of membership.

The American Rose Society Invites You to Membership

Membership in this Society makes available to you THE ROSE ANNUAL, a cloth-bound book of two hundred pages, beautifully illustrated, which is a compilation of the latest knowledge on rose gardening written for amateurs. Unlike most garden books written from the experiences of a single individual, this book represents the practical experiences of our membership of almost three thousand, edited by J. Horace McFarland.



Edited by J. Horace McFarland, but written by the Society's widespread membership, and reflecting rose experiences all over America, this book is issued in March each year to members only. It is a well-illustrated cloth-bound "Year-book of the Rose" of 200 pages, and includes the most complete and up-to-date rose knowledge for the amateur issued anywhere. Free to members.

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lovers and to vote at the annual meeting.

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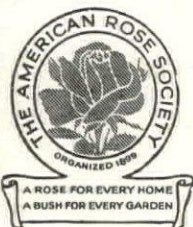
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Your membership will save you time, money and labor. It will help you make your garden more successful. You will get greater joy out of growing roses, through the fellowship of rose fanciers in this American Rose Society, now almost a quarter century old.

Address your remittance of three dollars by letter or on the attached coupon, mentioning this publication, and all the privileges will be yours. The Rose Annual will be issued in March and your copy mailed you.

The American Rose Society
Established 1899 Incorporated 1922
609 Finance Building Philadelphia, Pa.

APPLICATION for MEMBERSHIP



THE AMERICAN ROSE SOCIETY,
609 Finance Bldg. Philadelphia, Pa.

I enclose \$3 for 1923 Membership in the American Rose Society. Please mail me Membership Card and, as published, all bulletins of the Society, and the 1923 American Rose Annual.

Name _____
Local Address _____
City and State _____

Motors in the Home

(Continued from page 134)

motor is a luxury, an expense!" Yet, it consumes about 300 watts an hour, which means a cost of 3 cents an hour to operate it. Do you know anyone who will work for that?

A group of "computers", says the House Furnishing Review, recently computed that the washing machine saves \$71.05 per year.

Now review the facts:
Old-time washing takes 4 hours per week.
Washing machines take 2 " " "
Saving 30 cents per hour
for 52 weeks \$31.20
50 cents per week goes in fuel, soap, etc. in the "old fashioned" way. New fashion—15 cents per week. Saving, 35 cents per week for 52 weeks \$18.20
Clothes last "they" say, six times longer when electrically washed than when rub-a-dub-tub washed. Mildly speaking, in a family with but \$2400 annual income, the replacement on such clothes is \$26 per year. Reduced to 1/6, this saves \$21.65
So the gross saving would be \$71.05

ELECTRIC VACUUM CLEANER

Cleaning the house with a broom and dust cloth requires 10 hours per week. With the electric vacuum cleaner and attachments the work is done in four hours.

Saving six hours per week at 30 cents per hour for 52 weeks \$93.60
Four hours labor per week in operating cleaner at 30 cents per hour
for 52 weeks \$93.60
Current used 160 watts per hour at 10 cents per KW.HR. costs 1 3/5 cents an hour for four hours a week, or for 52 weeks, cost would be—
Cost of cleaner and attachments on installment plan prorated over 10 years, \$6.88
\$93.60
Gross saving per year 72.62
Total cost per year \$20.98

Net Savings

IRONING MACHINE

Dr. Cr.
Ironing by hand requires 5 hours, with the ironing machine it takes 1 hour, saving four hours.
Labor for four hours a week at 30 cents per hour for 52 weeks \$62.40
Four hours saving in gas for fuel at four cents an hour for a year 8.32
Clothes pressing bills saved per year 13.00
Net Saving \$49.79

ADVICE ON PURCHASING

When you purchase a motor driven device, see that the motor is one of the best makes, and made of the best materials. It should be as noiseless in operation as possible; fancy a noisy motor in a player piano, or in a talking machine! The making of such a motor for the phonograph, by the way, required the most careful study and the success resulting is a notable achievement.

DON'T BE GULLED

Don't be gulled by a misunderstanding of R. P. M., which is merely the statement of how many revolutions per minute the motor makes. A motor in one of the best vacuum cleaners on the

market makes fewer revolutions per minute than some of the ordinary kinds. An anxious buyer might think "Oh! the more R. P. M. the better", and be badly sold.

The places for oiling must be located so as to be easily accessible, and where they will not interfere with you or your with them. Keep the motor oiled in accordance with directions received with the machine; don't do too much or too little.

The motor should be so constructed that it is guarded against chance spills of water, dust, oil and dirt on it. The best motors, however, are so built that almost anything can be spilt on them without injury. The motor's current consumption should be the lowest possible commensurate with the work to be done. In some devices, such as sewing machines, mixing units and laundry devices, control of the speed is necessary or desirable, but this is accomplished by apparatus that is not part of the motor itself, and that need not be discussed here.

The position of the motor in the device, whether horizontal or vertical, is nothing to worry about, nor is the horse power. These questions have been solved for you by the designer of the machine.

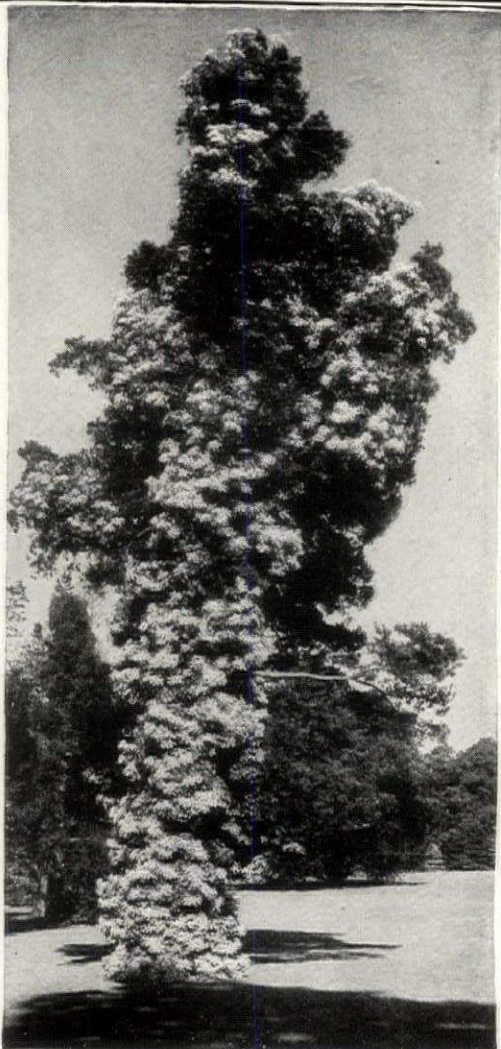
It is essential, however, that the motor and other parts of the machine shall be so placed and so arranged that one's clothing will not catch in them and that nothing will interfere with their operation.

ART AND THE MOTOR

The building of the small motor is an art, because of the fineness of its parts. Hundreds of feet of fine wire are used in a tiny motor so small that it will fit in the palm of the hand. Every part that is supposed to be insulated must be very carefully insulated for the slightest break in this insulation might cause trouble. This insulation and every other part of the motor must give satisfactory service under different temperatures and every demand and condition of normal usage. That the construction of one of these motors is no simple task is evident from the fact that the building of each one involve approximately 250 separate operations. Each of these operations requires care and the tests must be thoroughly made.

The best manufacturers make motor which embody the experience and the best thought in motor building. They are exquisitely made and carefully inspected, and back of them is the reputation of the firm making them. Buy the best.





Climbing Hydrangea

Twining Bowers of Beauty About Your Home

are yours for the choosing. You need only select wisely from the lovely climbing vines which Nature has so generously provided.

Trees, porches, pergolas, trellises, walls, stumps, fences and steep banks can be transformed into picturesque landscape adornments through our fine Polygonum Auberti and Climbing Hydrangea (Schizophragma Hydrangeoides).

Polygonum Auberti

blooms in September when other flowers are fading. Really remarkable effects can be produced on old trees. Its pure snowy-white, large-trussed flowers, borne in long racemes, in full bloom give the effect of a living mass of hoar frost against a green background. Hardy. Grows rapidly. 75 cents each; \$7.50 per dozen F.O.B. Pittsburgh.

Our Climbing Hydrangea

is one of the rarest and most beautiful climbing vines. Reaching out like ivy by means of aerial rootlets, Climbing Hydrangea is most splendid for ornamenting porches and for covering unpainted brick and stone walls and old trees. Begins blooming in June. Large white flower heads. Hardy. Foliage good all season. \$1 each; \$10 per dozen F.O.B. Pittsburgh.

Hardy Plants, Flowers, Evergreens and Other Shrubs of all kinds are described in our fascinating catalog. Write for your copy, or fill out and mail the coupon at once.

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Kindly send me your free catalog featuring popular favorites in trees, shrubs and hardy plants.	
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The Azaleas of Old Japan *for your Garden!*

THE spirit of old Japan still lives in its Gardens. And the keynote of these charmingly exotic spots—breathing the fascinating mysteries of the ancient East—is the bright, striking, yet delicately hued AZALEA.

We cannot all live in the colorful Orient. There is little of the exotic in the lives of most of us. But you can, however, brighten the gray monotone of native surroundings, by adding to YOUR GARDEN the vivid touch of oriental splendor—the picturesque charm and sentimental atmosphere of Old Japan itself—as brought to life in our

Azaleas of Old Japan

Large, bushy, shapely plants that bloom in late May and whose profuse blossoms are an almost indescribably delicate hue of flaming, pinkish red!

\$4. each. Five for \$19. Ten for \$35. F. O. B. Framingham. Special prices on larger quantities. Carefully packed and shipped with the soil in which they are grown.

Order NOW for prompt delivery of these beautiful plants in April and early May. Remittance must accompany order.

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Framingham Nurseries
FRAMINGHAM, MASSACHUSETTS

Home owners needing advice should have a copy of our handsome Book, "Beautiful Home Surroundings." Sent FREE on request anywhere east of the Mississippi and North of the Potomac. Elsewhere on receipt of \$1.



A Spirit of Good Cheer

THE whole year through a fresh and vernal beauty hovers around the home which stands in a bower of

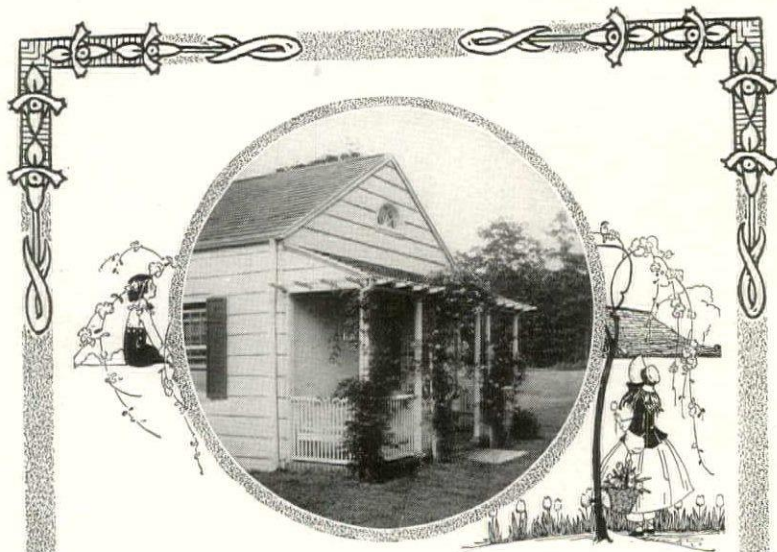
Hill's Evergreens

Independent of the changing seasons, beautiful Evergreens stand with a welcome, always friendly.

Any desired arrangement may be obtained out of the wide variety of Hill's Evergreens. Rightly chosen, they blend with the surroundings of the most formal mansion, yet the simple places seem to acquire new dignity by their presence.

Send for catalog, fully illustrated, showing many varieties from the world's largest stock of Evergreens—all at new reduced prices. Do it now and get your selections this spring. Consult your landscape architect, nurseryman or florist.

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I Can Surely Save You Money— This Tells How

First, you send for me, which is a very simple matter. A postal does it and the return mail brings me. Miss Ten Ten is my name. As I may have mentioned, I used to be an honest-to-goodness person until the garden fairies turned me into the Ten Ten Book. At first I didn't quite like it, but ever since I found out what a really likeable, helpful kind of a gardening and planting book they made me, I wouldn't care at all to ever be anything else.

This season they put my use-to-be picture on the cover, with me in my one-time Garden, all done most charmingly in colors. Then they added a goodly lot of new things in flower seeds, hardy flowers, shrubs and the like. But quite the best of all, we put our heads together and worked out the Give-and-Take buying plan that is a regular little money-saver for you. This novel, money-saving plan is explained fully in the Ten-Ten Book.

Here are three Money Savers that you can order right now while you are waiting for me, Miss Ten-Ten.

Some Special Money Savers

Helianthemums (Rock Roses)

We have ten beautiful, named hybrid Rock Roses. Their colors are pure white, opalescent shades of pink, pure yellow, orange, bronze and crimson. Some are single flowers, others double. Some have green foliage, others are silvery. They bloom in June and July, and no other dwarf plant produces a greater profusion of bloom than these Rock Roses. The individual blooms are exactly like a single Rose, and are about an inch in diameter. Planted in masses in a sunny place, on border or rockery, they will be a feature of your garden.

Price 25c each.

One each of ten varieties, for \$2.25.

Ten Hybrid Tea Roses - \$6.50

Ten Hybrid Tea Roses in three delightful colors

4 Ophelia	Creamy white—salmon tinge
3 Mrs. Aaron Ward*	Indian yellow
3 Los Angeles*	Flame pink

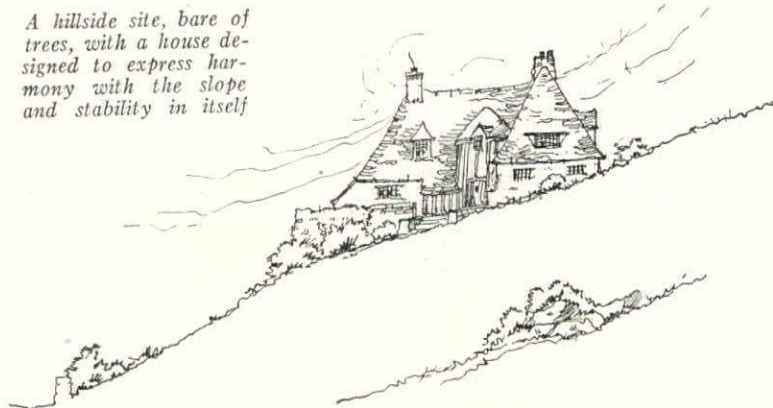
The above varieties marked with * can be supplied as Standards—3½ ft. stems—\$1.75 each.

Ten Packets of Perennial Seeds-75c

10 Packets of Perennial Seeds, which if sown now will flower this year. This set contains a choice selection of hardy perennials that mature quickly. The 10 will contain—Delphinium, Gaillardia, Shasta Daisy and seven other choice varieties. Complete instructions on each packet.

Julius Roehrs Co
At The Sign of The Tree
Box 60 Rutherford N.J.

A hillside site, bare of trees, with a house designed to express harmony with the slope and stability in itself



Relating the House to Its Site

(Continued from page 74)

examination. They are imaginary sites, intended each to be sufficiently different from the others to illustrate the method of study best suited to the site problem. If a method of study, or thought, can be evolved, its application to any given case should result in a sound solution. The sites illustrated are, in a sense, typical; they represent certain broad classifications in which exist an infinite number of variations, and the variations would suggest corresponding minor modifications of the houses.

Before proceeding with a study of the sketches, it should be explained that the consideration is based primarily on profiles, rather than upon style or materials. Broadly speaking if the profile of a house is right and harmonious in its relationship to its site, all other questions of its design become secondary. If, in addition to possessing the right profile, the house is also built of logical and pleasing materials, and designed in an agreeably appropriate manner stylistically, so much the better; but these merits are seen at a disadvantage if the profile and general masses of the house are not well-related to the site.

The illustration at the foot of page 74 shows a bare hill-crest site, such as is commonly found by or near

the sea. Clumps of low shrubbery are the only green, and no trees break the lines of the numerous hills and knolls of which this assumed site is one. The architectural intention here was to effect a profile which would not do too great violence to the surrounding topography. The building is kept as low as possible in mass, and its roof line is, in profile, only slightly different from the profile of the hill. The house, in effect, has not made of itself an evident excrescence on the top of the hill, but has assumed a profile which seems only to be the same hill, with a little added height, or, in other words, the profile of the house is treated as though it were a continuation of the profile of the hill.

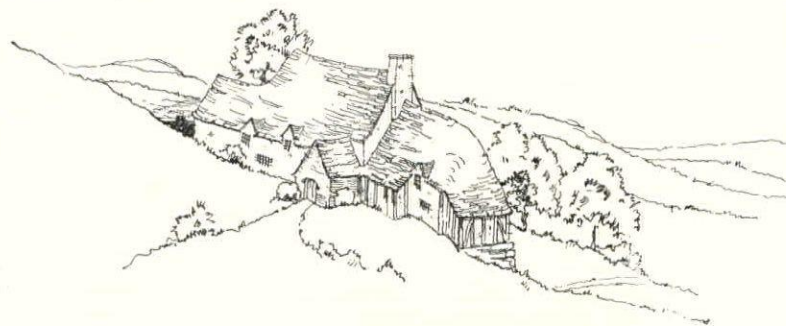
The thickly wooded hill-top site, in the center of page 74, is a different problem, met with a different solution. Here the sides of the hill are concealed by trees, so that its profile is not apparent, and in order to keep the house from being smothered, it must rise steep and high above the tree-tops. The trees eliminate any danger of the house seeming to be perched uncomprehensibly on its site, and the result gained by the steep profile differs conspicuously from the result gained by the low lines of the first hill-top house.

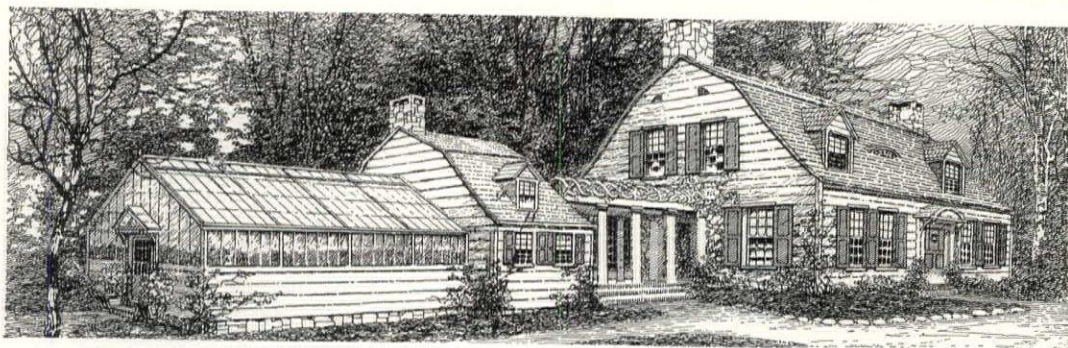
(Continued on page 142)



A suggestion of the type of site in which only the front of the house is a visible factor in its setting

A study of the partly wooded hillside site, with a house designed to conform with the immediate surroundings





A Happy Thought For Your Glass Garden Linking

Isn't it so, that you have always kind of put off having a glass garden of your own, just because you couldn't quite figure out how it could be linked up to your residence without having sort of a hitched-on-effect?

Here then is the happy thought of an architect friend that holds a suggestion.

In a most charming way it makes possible, always having a perpetual flower-filled summerland, just a step from your door. That snug little work room might well be a bit larger and by some slight changes in the design, be used as a garage as

well. Then you could always have it warm for your car at practically no extra expense.

This glass garden is 18 x 33 which you can well imagine gives you quite a goodly amount of gardening space for your flower favorites.

Why don't you send for one of us right now, and let us sit down together and unhurriedly plan something out for you. Of course, you are most welcome to our printed matter which we will gladly send at once.

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Farr's Hybrid Delphiniums

Wyomissing Hybrids. Semi-double and single. Extra-large flowers in many beautiful shades. 35 cts. each, \$2.50 for 10.

Belladonna Seedlings. New type; long spikes of large sky-blue flowers, with an occasional plant of a dark blue.

Chinensis. A distinct species; brilliant, deep blue flowers in great profusion all summer.

Chinensis Alba. Same as Chinensis, but with pure white flowers.

Formosum. The old-fashioned dark blue Larkspur. Free bloomer and one of the most reliable of all. Most effective when in groups of a dozen or more plants.

My "House and Garden" Offer

- 5 vars., 3 plants each
(15 plants)\$3.50
- 5 vars., 6 plants each
(30 plants)\$6.00
- 5 vars., 12 plants each
(60 plants)\$10.00

To secure these special prices be sure to mention House and Garden.

BETTER PLANTS—By Farr

A new book giving a complete list of peonies, irises, phlox, hardy chrysanthemums, delphiniums, new and rare lilacs, deciduous and evergreen shrubs.

Good for everybody—quite worthwhile for anybody

A copy of this book has been sent to my regular customers, but other interested garden-lovers may have a copy by sending me their name and address.

BERTRAND H. FARR Wyomissing Nurseries Co.
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It Is Not Too Early

to make arrangements for the planting you intend doing this spring. We have a large stock of hardy New England grown evergreens, trees, shrubs, roses, and perennials from which to select plants that will fill your requirements. If you are looking for well-grown plants dug and shipped properly, we know that we can serve you to your satisfaction. A copy of our "1923 Handbook" will be mailed upon request.

The Bay State Nurseries
W. H. WYMAN & SON, Proprietors
North Abington,
Mass.



Kunderd Gladioli

"They never disappoint"

Personal Message

Calls for Kunderd Gladioli this year have so exceeded anticipations that I urge old friends—and new—to send requests at once! Stocks of many of the greatly desired new kinds are already low. I don't want any admirer of Kunderd Gladioli to be disappointed this year. Write me immediately—while I can help you!—A. E. K.

Now for the joyous planting days!

Are you ready for that first wonderful moment of spring when the thrills of garden making begin? I know what it means to me; I realize what it *must mean to you* if your Kunderd ruffled, plain-petal or primulinus gladioli are ready for Mother Earth's signal!

Kunderd *ruffled* type Gladioli have re-created world-wide interest in this charming flower. Kunderd plain-petal type have kept step in color and perfection with the *ruffled* kinds, for Mrs. Dr. Norton, Paramount and Mrs. Frank Pendleton stand absolutely unrivaled! And, no other strains of primulinus hybrids even resemble the new Kunderd family, which is a sensation in exquisite butterfly and orchid-like forms.

My enthusiasm is so keen for all three kinds; my joy in having them bloom gorgeously in your garden is so great, that I say again—*Please send quickly for my new catalog* (describing nearly 400 varieties, with 28 in color), and get off your order as soon as you get it; or, if you have already received the catalog, *don't delay an unnecessary moment!* My personal cultural instructions and Special Collection offers are printed in the catalog, which is actually a Gladioli Handbook.

A. E. KUNDERD, Box 2, Goshen, Ind., U. S. A.
The Originator of The Ruffled Gladioli

Relating the House to Its Site

(Continued from page 140)

The site at the head of page 74 supposes a broad sweeping moorland, devoid of trees, and with most of its natural lines horizontal. The conformation of this site obviously suggests the long, rambling type of house, picturesque and romantic in its character, and built with intent to look as though it possessed a considerable age, and had belonged for many generations on its site. The extremities of its mass are brought down toward the ground with intent to harmonize the profile with the sweeping lines of the countryside, a device also aided by the wall of the enclosed garden. A walled garden, whether for flowers or vegetables, is almost a necessity for a house on any site of this type, because it provides a definite area for garden treatment, and gives the effect of shutting out the surrounding stretches of barren country. The house indicated in the sketch is a house of considerable size; its character, for a moorland site, would be the same if it were much smaller.

AN ORCHARD SITE

Two sites of a very different character are now considered. The first supposes an old orchard on a tract which was once a farm. The very earth underfoot seems old and cultivated, and the only house which seems at home in such an environment is a house of the kind that might have been built by the early settlers who planted the orchard. The governing point veers at once from profile, a consideration primarily aesthetic, to style, a consideration primarily historical. The site, possessing no salient topographical features, suggests no specially studied roof-line: the problem becomes rather one of historic relationship to site than of physical relationship. The profile illustrated is that of the end view of a house of Dutch Colonial type, with two extensions lower than the main body of the house. Here, although the type is a conventional one, there is plenty of variety and interest in the roof-line to make for picturesque charm, but also a quality of logical appropriateness of type to dwell in easy harmony with the old environment.

The second of the old "cultivated" sites is the site in or near an old New England village, where old shade trees and ancient stone walls combine gently but firmly to urge the conventional New England type of house, white with green blinds, quiet, reposeful and unobtrusive. Here again the relationship of house and site is primarily a stylistic one, but only because the element of style, in such a case, outweighs consideration of contour or profile.

GOOD CITIZENSHIP

The question in this case, as well as in the one before, revolves largely around the question of being a good citizen and a decent neighbor, instead of a selfish egotist. Self-expression is all very well in a more or less isolated site, but building a new house in an old community involves certain neighborly responsibilities which are of the utmost importance. To build a sophisticated Italian villa, for instance, in an old Connecticut village, will make no friends. None of the old residents will be happy about it, or like you for it. It is not only better manners and better citizenship, but it is better architecture to build in an old, settled locality with some thought of being a part of it, rather than an alien interloper.

Two further sketches show hillside sites; at the foot of page 140, a somewhat wooded hillside, at the top of the page, a bare hillside, diversified only by

boulders and low clumps of bushes.

In the first instance the long axis of the house has been made to parallel, roughly, the direction of the side of the hill, and the roof-line has been brought down as low as possible, in order to harmonize with the topographical character of the land, both near and distant.

Trees, on such a site, can do much to relate the house to the hillside and effect a well-knit composition: in the second of the two hillside sites no such aid is available. Here, as in the bare hill-top site, the whole success of the relationship of site and house rests with the profile. Every prospective builder should make himself as sensitive as possible to the profile of every house he sees, as an aid to visualizing the effect of his own as yet unbuilt house. It should not be forgotten that profile, whether good or poor, is an element in house design that exists quite irrespectively of style or material.

A BARE HILLSIDE

The architectural intention in the house on the bare hillside was to utilize both profile and mass in such a way as to give a necessary effect of stability and counteract the long, exposed slope of the hill. To parallel the bare hill-slope with the roof-line would give the house an unfortunate effect either of sliding down the hill, or of crawling, caterpillar-like, up it. The left slope of the roof is in sufficient harmony with the hill-slope down to the road to make a good linear, or profile relationship, while the steeper slope on the up-hill side of the house checks too much suavity of line, and makes for definite character.

The last sketch supposes a level site with a background of trees, or a steep hill, and in such a case the question of mass, and even the question of profile gives place to what architects call the "front elevation" and laymen call the "front view". This consideration is primarily a pictorial one. The end views are not seen conspicuously, if at all, the rear is never seen, the mass of the whole does not impose itself on the landscape.

Obviously, the house suggested in the sketch is only one of the many types which would fit this kind of a site. It is, perhaps, the easiest of all site problems. A picturesque front elevation, certainly, is its main solution, for it involves no other serious considerations such as are found in hillside or hill-top locations, or in sites which admit of no aid from trees.

STUDYING ONE'S SITE

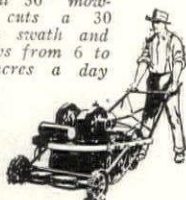
Methods of approaching the problem of relating house to site will depend naturally upon conditions in given cases. If no site has been acquired, and the prospective builder has set his heart on a certain kind of house, he should look about for a site that will most happily accommodate it. If he already has the site, he should give very careful thought to the kind of house that will best harmonize with it, perhaps giving up some preconceived idea of an unrelated house. If the prospective builder owns a considerable tract of land, diversified in conformation, he will have before him some choice in the matter of site, and should try to visualize site and house together. If visualizing, which seems to be more or less a gift, does not lie within his accomplishments, he will do well to take a number of photographs of the various possible building sites on his land, and try his

(Continued on page 144)



Ideal Junior cuts a swath 22 inches wide. Capacity from 3 to 4 acres a day

Ideal 30" mower cuts a 30 inch swath and mows from 6 to 7 acres a day



A CARPET-LIKE lawn adds much to the value of a fine home. Ideal Power Mowers maintain such lawns at low cost by cutting them evenly and rolling them to velvety smoothness in one operation.

Your caretaker or an unskilled man at laborer's wages can do perfect work with an Ideal. He can cut from a half to a full acre an hour, trimming the borders closely. Contrast this with the cost of mowing, rolling and trimming your lawn by hand and you will readily see why an Ideal pays for itself so quickly.

We will be pleased to send you interesting literature and prices upon request.

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Attractive designs may be selected from our collection of enduring Terra Cottas which also includes Benches, Fonts, Sun Dials, Gazing Globes and other charming decorative accessories for the garden, sun room and house.

A catalogue illustrating 300 numbers will be sent upon receipt of 20 cents in stamps.

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3218 WALNUT STREET
PHILADELPHIA



Wouldn't you like to have a Garden like this!

So invitingly beautiful, yet adaptable to the requirements of any property and to the size of any pocket book, such a lawn is, by far, more a matter of taste in selection and arrangement, than expense. Just a few Trees and Shrubs rightly chosen and placed are often more effective than a lavish expenditure for a poorly thought-out planting.

"On Beautifying the Home Grounds" is our illustrated booklet which, with our new descriptive catalog H, is designed to help you realize the biggest dividends in enjoyment from your investments in plants. Ask for them and for our Special Offer Folder.

Moons' Nurseries

THE WM. H. MOON CO.

MORRISVILLE PENNSYLVANIA

which is 1 mile from Trenton, N.J.

Relating the House to Its Site

(Continued from page 142)

hand as sketching in profiles of possible houses on the prints.

Above all, the prospective builder should not feel that the selection of the site is such an easy matter that he need not consult with his architect about it. The architect, from the nature of his training, is quick and accurate at visualizing, and can see in his mind's eye very nearly the exact appearance of this house on that site, or that house on this site. It is part of his work, and a service which he will always be very glad to render.

If the property is of any considerable extent, and at all diversified in character, with an intention of planning drives on it, gardens, tennis court, garage and so forth, it is often the practice to have made a topographical survey, which will show, at scale, all the grades and contours. From this survey a scale model can be made of clay or plaster, and every feature of an estate can be planned in miniature before a spade of earth is turned on the actual work. This is in many ways an ideal method of studying the relationship of the house to its site, for the effect, when a scale model of the house is placed on the scale model of the site, can be seen from all angles, often disclosing things to the lay mind

that are not to be grasped in a drawing that indicates but two dimensions.

A site may always be changed or modified in the immediate surroundings of a house by means of grading and planting—but much as these means accomplish, they will usually fail to conceal a fundamentally wrong relationship of house to site. Above all else, the profile is the most important consideration. It governs the mass, or the grouping of masses that compose the house, and is the fundamental upon which all else depends. Style as a factor in the relationship of the house to site is a different sort of consideration, and applies only when the term "site" is meant to designate a kind of existing community rather than a topographical condition. The two should never be confused, and there is no real reason for doing so. Fortunately the site which imposes a certain style of house seldom possesses dominating topographical traits which would make such a house wrong in profile, and in the cases where the site possesses salient features of hill or crag which would and should dictate its profile, there is no stylistic restriction—and "all things work together for good"—if they are intelligently analysed and definitely visualized.

HOW TO MAKE VINE CUTTINGS

MANY times one has a special grape or other vine from which they would like to make cuttings either to increase the home supply or to share with a neighbor or friend.

Vines are increased by rooting "cuttings" of the "canes". Canes are the mature growth of the current year; while cuttings are pieces of these canes, usually from 10" to 18" long.

The best wood for cuttings is of medium size and with moderately short joints.

The outer bark should be a clear yellow or purple brown, according to the variety and without dark blotches. When the cane is cut with a sharp knife the inner bark should appear green and full of sap, and the pith of moderate size, clear, firm and light colored.

Cuttings are best if made within a week or two after the fall of the leaves, but, if the vines are healthy and the wood well matured, they may be made at any time from the fall of the leaves until a week before the starting of the buds in spring.

Cuttings of from half an inch to one-third of an inch in diameter are best, and they should not be more than one inch at the butt, nor less than one-quarter of an inch at the top. The shorter they are the better provided they can be made to root. In good soil with special care cuttings 8 inches long do very well. Usually 10 to 12 inches is better. For direct planting in the garden they should be 15 to 18 inches. The looser and drier the soil and the hotter the climate the longer they should be. In wet, heavy soil in the cooler regions short cuttings are preferable.

The base of the cutting should be as close as possible to a bud, providing the cross partition is left. If a pithy piece of wood is left at the base the cutting does not heal over when it roots and is apt to decay. At the top of the cutting about three-quarters of an inch should be left above the uppermost bud.

Heat and water are necessary to

start either roots or buds. We can delay either by keeping the cutting dry and cool or hasten either by keeping them moist and warm.

The cuttings as soon as made are buried in sand with the butts up and all at the same level. When they are all buried, three or four inches of sand should be placed over the butts of the cuttings, making a perfectly level bed.

To protect the cuttings from moisture and heat so as to keep them dormant the sand should then be covered with 12" or 18" of loose straw, weeds or similar material.

Two or three weeks before planting time the straw covering should be removed and the 4" top layer of sand thoroughly moistened by sprinkling. The moisture and the heat from the sun will then start the process of root formation. The sand must be closely watched and sprinkled as often as is necessary to prevent drying, only enough water being used to moisten the top layer of sand.

After seven to ten days the butts of the cuttings should be examined every few days. As soon as they show signs of white healing tissue (callus) and checking of the joint where the roots are forming, they are ready to plant. Planting should not be delayed until roots appear, as these roots will be destroyed in planting and others will have to form.

The cuttings, should be planted with the second bud level with the ground that is, with one full joint above the surface. The soil should be firmly around the butts and unless quite moist, settled with water when the trench is about three-quarters full. The soil should then be brought up around the cuttings by hand almost to the top of the bud.

Watering should be relatively frequent during the first part of the season so as to start growth early and keep it going until the vines have made a top growth of 12 inches or more and have developed a good root system that will make them less sensitive to drying out.



Flowering Trees and Shrubs of Oriental Splendor

WHERE a large tree is not desirable, or an evergreen may be too formal, flowering shrubs will be ideal. So, too, groups and combinations will be preferable wherever such an arrangement is possible.

The species and varieties grown by Outpost Nurseries and here offered, are extremely rare and difficult to obtain. They are choice and beautiful specimens, and must not be confused with ordinary stock.

*One each of These Seven Trees and Shrubs
Extra fine specimens (7 in all) for \$20.00*

JAPANESE WEEPING CHERRY (*Cerasus avium roseo pendula*). Produces a strong Japanese effect with crooked drooping branches. Beautiful pink or rose flowers. Excellent for backgrounds. 6 foot specimens \$5 each.

JAPANESE FLOWERING CRAB APPLE (*Pyrus floribunda*). Literally covered in spring with fragrant pink flowers of rare charm. Extremely ornamental, very hardy and desirable as specimens or in the border. Strong specimens, 4 to 5 feet, \$1.50 each.

JAPANESE DOGWOOD (*Cornus Kousa*). A Japanese counterpart of our own *Cornus Florida*. In the Japanese species the berries are united in a flushed strawberry-shaped mass. The leaves are small, the flower heads borne on a slender pedicel. Blooms about the end of May when the tree is in full foliage. Strong specimens 4 to 5 feet, \$2.50 each.

RED-FLOWERING DOGWOOD (*Cornus florida rubra*). Similar to the White flowering variety, but with red blooms. A rare species and difficult to obtain. Strong specimens, 5 to 6 feet, \$6 each.

WHITE-FLOWERING DOGWOOD (*Cornus florida alba*). Myriads of white blossoms followed by scarlet fruits in the fall. Upright growth, branching closely to the ground. May be trimmed to formal shapes. Strong specimens, 5 to 6 feet, \$5 each.

DOUBLE WHITE-FLOWERING PEACH (*Prunus persica alba*). Tree rather irregular in form, useful as a specimen or in the border. Flowers pure white, double and about an inch and a half in diameter. Strong specimens, 5 to 6 feet, \$2 each.

DOUBLE RED-FLOWERING PEACH (*Prunus persica rubra*). Similar to the preceding but with unusually handsome red flowers. Strong specimens, 5 to 6 feet, \$2 each.

THESE flowering shrubs represent only a small part of the remarkable collection at Outpost Nurseries. We shall be glad to have you come to the Nurseries and get acquainted with our resources, quality of the stock and the care given to its growth. If you cannot visit us, write us about your home or estate and we will gladly give suggestions and advice for landscape planning.

New illustrated catalogue sent on request

Outpost Nurseries

Danbury Road

Ridgefield, Conn.

Schling's Novelties for your new Garden!

We want you to know Schling's Seeds—Seeds produced by specialists and originally raised in small quantities only for the use of master gardeners of great estates to produce their prize effects, but now grown in such quantities as to satisfy in part at least the popular demand.

Schling Seeds will give you *maximum satisfaction* because of their *supreme quality*—they are seeds with a tradition to maintain! Just to prove to you their worth and start a life-long friendship we make the following remarkable offers of Schling Specialties for 1923:

Offer No. 1

Our "Get Acquainted" Specialty Offer to House & Garden readers

A \$3.00 value for \$1.00

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| 1 pkt. Schling's First Early Blood Beet..... | 15c. |
| 1 pkt. Schling's Wonderful Head Lettuce..... | 15c. |
| 1 pkt. Schling's Triple Curled Parsley..... | 10c. |
| 1 pkt. Schling's Earliest Twenty-day Radish..... | 10c. |
| 1 pkt. Schling's New Annual Blue Anchusa. Like a spray of forget-me-nots of deepest blue. Blooms on 18-inch stems..... | 25c. |
| 1 pkt. Schling's New Double Orange Glory Calendula. Pure glowing orange, perfect in form and double to the very center..... | 25c. |
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| 1 pkt. Schling's New Double Hybrid Poppy. Beautifully fringed, as big as a Peony; will last a week in water..... | 25c. |
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| 1 pkt. Schling's American Beauty Aster. Monstrous flowers 7 inches across on three-foot stems. Same color as the American Beauty Rose..... | 25c. |
| 1 pkt. Schling's New Giant Peetee Zinnia. Exquisite pastel shades with the end of each petal distinctly marked with other well-defined colors..... | 35c. |

Catalog Prices, total \$3.00

Offer No. 2

12 New American Snapdragons for 1923 including "Indian Summer" with Flower spikes as tall and strong as Gladioli

(See Illustration)

\$12.00 value for \$9.00

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| Pathfinder—Tender rose-pink, with yellow lip and pure white throat..... | 1.00 |
| Yosemite—A splendid lilac-purple with golden yellow center..... | 1.00 |
| Navaio—Pure delicate canary-yellow self without the slightest trace of another color..... | 1.00 |
| Seminole—Rosy lilac with silvery white throat..... | 1.00 |
| Wyoming—Deep carmine-pink with golden yellow lip, shaded reddish lilac at throat—wonderfully effective..... | 1.00 |
| Narragansett—Delicate rosy lilac, overlaid with a silvery luster; rich golden yellow at center..... | 1.00 |
| Tenebris (Sunset)—Golden yellow (Autumn gold) changing toward the center to a bright terracotta—a wonderful color..... | 1.00 |
| Shasta—A lovely pure white with a fine yellow throat..... | 1.00 |
| Massasoit—Brownish orange with an undercurrent of coppery red..... | 1.00 |
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A large, handsome book of 106 pages full of information and suggestions for every gardening need. An invaluable guide to you in planning your next garden.

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"INDIAN SUMMER" Schling's Wonderful New Snapdragon (See Offer No. 2)

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The entire collection of Schling Specialties offered on this page—Total value \$27.25 for only \$18.00—An unparalleled opportunity!

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Schling's 1923 Novelty Collection You *must* have these in your garden this summer

\$6.25 value for \$5.00

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This includes Offer No. 3 complete and in addition our Sunburst Collection of giant Dahlia-Zinnias in 12 separate and distinct colors—Tyrian Rose, Mallow Purple, Spinal Red, Cadmium Yellow, etc., and regularly \$5.00 alone.

An \$11.25 value for \$8.00

You may order separate items at prices given

Offer No. 5

PERPETUAL SPINACH

Another exclusive novelty not obtainable elsewhere. A real spinach that you can cut and recut and it will come and come again—not a Swiss Chard, but a big-leaved, quick-growing summer and fall spinach which takes the place of all other varieties. A \$1.00 package will supply your table all summer.

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I enclose \$.....; please send me your

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☐ OFFER NO. 2 ☐ OFFER NO. 4 ☐ OFFER NO. 6

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Reproduction from a painting in oil, by Chas. A. Wilimovsky, of Arbor Lodge, Nebraska City, Neb., home of the late J. Sterling Morton, founder of Arbor Day. The trees on this historic place were treated by Davey Tree Surgeons

How should you choose your Tree Surgeons?

ASSUMING that you are an average tree-owner, you have neither the time nor the desire to study in detail the technique and science of saving trees. You have no means of knowing Tree Surgery values, either in correct methods or reliable men. Therefore you must buy Tree Surgery service on faith.

Twenty-two years ago John Davey published his first book, "The Tree Doctor." Then began the slow and conscientious building of the Davey organization. In those early years the business was measured in hundreds and thousands of dollars. In 1922 the business amounted to one million dollars. During the past twenty years more than eighteen thousand clients have been served—more than four hundred thousand trees have been treated and saved. During the same period, many tree men have sprung up, lasted for awhile and disappeared. The Davey organization is the only concern that has endured and grown steadily and proven its inbred merit. The law of cause and effect makes this success significant.

The Davey organization is the one safe place to go. You do not need to know anything about trees or Tree Surgery values. Every Davey Tree Surgeon operates according to fixed high standards and under strict discipline—you could not hire or persuade him to give anything but standard Davey Service.

Davey Tree Surgeons are near you—if you live between Boston and Kansas City or in California. Write or wire nearest office for examination of your trees without cost or obligation

THE DAVEY TREE EXPERT CO., Inc., 503 Elm Street, Kent, Ohio
Branch offices with telephone connections—New York, Astor Trust Building, Fifth Avenue and 42nd Street; Boston, Massachusetts Trust Building; Philadelphia, Land Title Building; Baltimore, American Building; Pittsburgh, 331 Fourth Avenue; Buffalo, 110 Franklin Street; Cleveland, Hippodrome Building; Detroit, General Motors Building; Cincinnati, Mercantile Library Building; Chicago, Westminster Building; St. Louis, Arcade Building; Kansas City, Scarrill Building; Los Angeles, Garland Building; Montreal, 252 Laugachilere, West.



JOHN DAVEY
Father of Tree Surgery

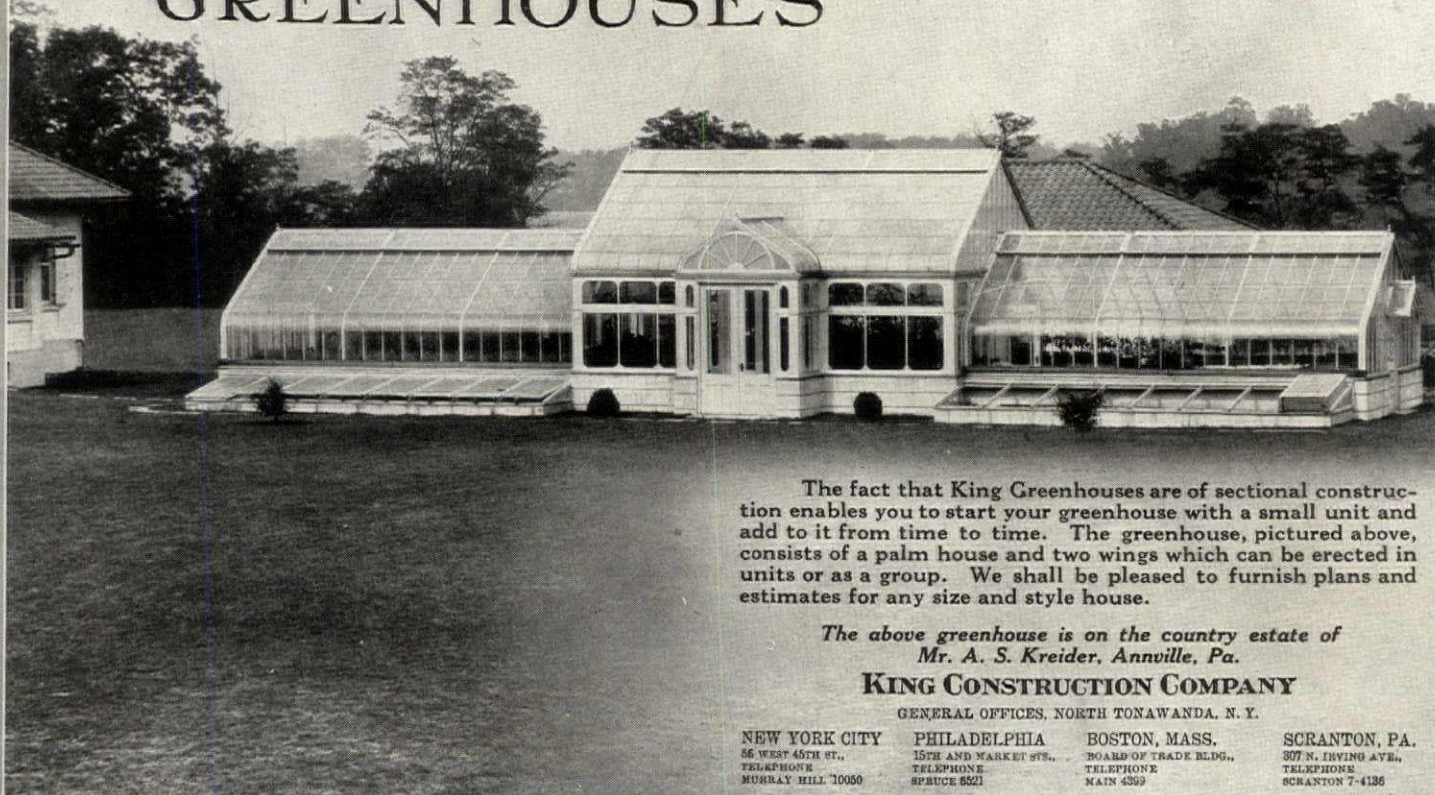
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Every real Davey Tree Surgeon is in the employ of The Davey Tree Expert Co., Inc., and the public is cautioned against those falsely representing themselves. An agreement made with the Davey Company and not with an individual is certain evidence of genuineness. Protect yourself from impostors. If anyone solicits the care of your trees who is not directly in our employ, and claims to be a Davey man, write headquarters for his record. Save yourself from loss and your trees from harm

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The fact that King Greenhouses are of sectional construction enables you to start your greenhouse with a small unit and add to it from time to time. The greenhouse, pictured above, consists of a palm house and two wings which can be erected in units or as a group. We shall be pleased to furnish plans and estimates for any size and style house.

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Announcing the New Catalogue



HE Wolcott Nurseries take pleasure in presenting to the garden world a new and distinctive catalogue containing a list of the choicest alpine and herbaceous perennials in this country.

The greatest attention has been given to the description of these alpine flowers as well as detailed instructions for their successful care after transplanting. Many of these plants have heretofore been considered very hard subjects for the amateur gardener but with the proper soil requirements, which are given in this catalogue, they should thrive and become a delight to the eye.

We believe that the alpine garden is a most fascinating part of the landscape and those who have grounds suitable for the successful placing of such a garden are indeed fortunate.

To insure this catalogue reaching the true garden lover we are making a small charge of twenty-five cents which will be refunded with the first order.

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Alpine Gardens, Herbaceous Borders, Landscapes

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A Garden Full of Gladioli for \$2.00



The Gladiolus is one of the most satisfactory flowers grown and there is no reason why every family cannot enjoy this grand flower—it is as easy to grow as the potato.

Bloom from July to frost if you plant a few bulbs each month from April to July.

For **TWO DOLLARS** we will send **50 Bulbs** of our **Grand Prize Mixture**, which covers every conceivable shade in the Gladiolus kingdom.

Each year we sell thousands of these bulbs and have received numerous testimonials as to their merits.

Simple cultural directions in package

ORDER YOUR BULBS NOW so as to have them to plant when you begin making your garden.

Mail this advertisement, or present at our store, with Check, Money Order, Cash or Stamps, and secure this splendid collection, sent prepaid to any point in the U. S. east of the Mississippi. For points West and Canada add 25c—(\$2.25).

Our 25th Anniversary Seed Annual sent on request

Stumpp & Walter Co

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NOW

Is the right time to plan your Spring garden

May we presume to again caution our friends about using the very greatest discretion in the timing of their planting. It is a well established fact that most varieties thrive best when planted early in the spring.

For your guidance, in the proper selection of stock for early planting, our service department suggests the eight groups of varieties listed below as the very cream of the best.

May we advise that you place your order now for delivery when wanted, as after all, that is the one best way to insure the very choicest selection of stock. As an additional inducement—and, this is quite contrary to custom for this time of the year—we have grouped these following varieties, at exceedingly attractive prices.

FLOWERING SHRUBS

Sweet Syringa
Common Snowball
Butterfly Bush
Rose of Sharon
Purple or White Lilac
Spice Bush
Double Pink Deutzia
Red Twigged Dogwood
Bridal Wreath
Golden Bell
Extra heavy shrubs—3 to 4 ft.
For 10—(1 of ea.)—\$5.00
For 100—(10 of ea.)—\$45.00

FLOWERING CRAB APPLES

Pyrus Floribunda
" Ioensis (Bechtels Fl. Crab)
" Parkmanii (Parkman's Crab)
" Scheideckeri
" Spectabilis Fl. Pl.
3 to 4 ft. high—\$1.25 ea.
For 10—(2 of ea.)—\$11.00
4 to 5 ft. high—\$1.50 ea.
For 10—(2 of ea.)—\$13.50

CLIMBING ROSES

American Beauty (Red)
American Pillar (Pink)
Crimson Rambler (Crimson)
Dr. Van Fleet (Flesh Pink)
Dorothy Perkins (Pink)
Excelsa (Red)
Hiawatha (Crimson)
Silver Moon (Silvery Wht.)
Tausendschon (Pink)
Gardenia (Cream Colored)
For 10—(1 of ea.)—\$6.50
For 100—(10 of ea.)—\$65.00

BEAUTIFUL PAEONIAS

Dalachi (Purplish Crimson)
Duchess de Nemours (Creamy Wht.)
Duke of Wellington (Sulphur Wht.)
Edulis Superba (Silvery Pink)
Grandiflora Rubra (Red)
Meisonier (Deep Red)
Pulcherrima (Salmon Pink)
Rose d'Amour (Delicate Pink)
Festiva Maxima (Best White)
Magnifica (Light Pink)
For 10—(1 of ea.)—\$7.50
For 100—(10 of ea.)—\$65.00

HARDY PERENNIALS

Foxglove (in variety)
Larkspur " "
Phlox " "
Canterbury Bells (in variety)
Columbines " "
Iris " "
Hollyhocks " "
Sweet William " "
Chrysanthemums " "
Hardy Asters " "
For 10—(1 of ea.)—\$2.50
For 100—(10 of ea.)—\$20.00

HYBRID TEA ROSES

(Bloom all summer)

Etoile de France (Red)
Grus an Teplitz (Red)
Miss Cynthia Ford (Pink)
Mme. Carolina Testout (Pink)
Pink Radiance (Pink)
Killarney White (White)
Madam Edward Herriot (Yellow)
Mrs. Aaron Ward (Yellow)
Ophelia (Pink)
Red Radiance (Red)
For 10—(1 of ea.)—\$7.50
For 100—(10 of ea.)—\$65.00

BIRD ATTRACTING SHRUBS

Snowberry (White Berries)
Coralberry (Red)
High Bush Cranberry (Red)
Ibota Privet (Blue Black)
White Kerria (Black)
Silver Thorn (Red)
Strawberry Bush (Red)
Cornelian Cherry (Red)
Bush Honeysuckle (Red)
Black Alder (Red)

Strong 3 to 4 ft. shrubs

For 10—(1 of ea.)—\$5.00
For 100—(10 of ea.)—\$45.00

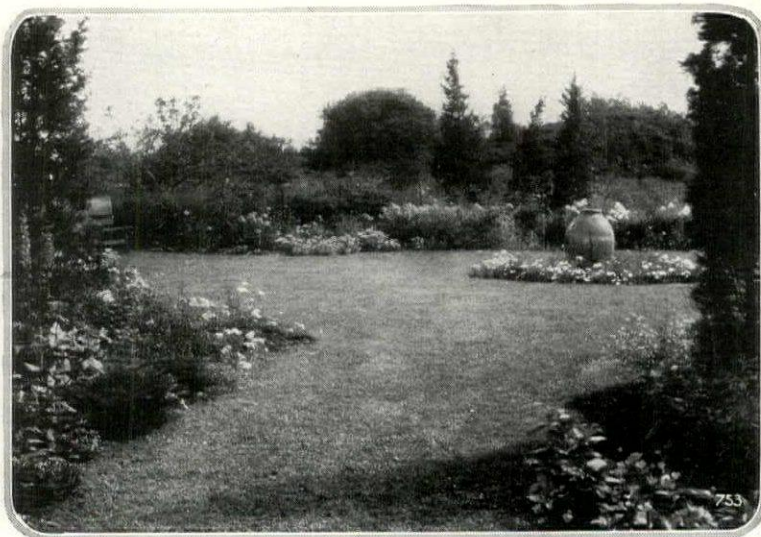
FLOWERING AZALEAS

Azalea Arborescens
" Calendulacea
" Vaseyii
" Viscosa
" Nudiflora
12 to 18 in. high—\$1.75 ea.
For 10—(2 of ea.)—\$16.00
18 to 24 in. high—\$2.50 ea.
For 10—(2 of ea.)—\$22.00

Our service department will gladly supply any information you may desire, on how to secure the maximum degree of perfection with any of the above groups.

"Successful for over a century"
AMERICAN NURSERIES

H.E. HOLDEN, Manager
Singer Building
NEW YORK



An irregular planting gives charm to the border in the garden of Mrs. J. Frederick Eagle, Watch Hill, R. I. Marian C. Coffin, landscape architect

Making a Perennial Border

(Continued from page 87)

develop and flower in succession.

Differences in soil, aspect and climate govern the planting of borders in various districts and may make a considerable difference in the height, flowering season, or even the color of a plant. These things can only be learned by experience but all enter into the composition of a successful border. But it is absolutely essential that the soil be properly prepared before a single plant is put into the ground. For full directions on this preparation we recommend a study of the article on page 80.

While quicker effects can be obtained if one buys the plants of a nurseryman, the more patient gardener may raise many of the flowers here suggested from seed. The iris and peony, the day lily and all those hybrids that do not come true to seed should be pur-

chased, the gardener selecting his color according to variety.

Not everyone can start with newly dug untenanted soil and be able at once to fill it with all those plants which will carry out a definitely prepared plan. Most people must be content to perfect gradually, taking up and replacing as tastes and ideas alter and circumstances allow. Perhaps in the end this is the happiest way. It might be hard to admit that the worked out plan required adjustment after but one year's trial but the great charm of the garden which grows slowly lies in the realization of long pondered ambitions, the unexpected turn which they sometimes take in fulfillment, the first flowering of a long coveted plant, even the only half admitted truth that no achievement is final—these things can be an endless joy.

The Succulent Vegetables of Spring

(Continued from page 84)

avoided. In theory the gardener sows thinly, but not so in practice for several reasons. Firstly because in union there is strength; several seeds sown close together break more easily and surely through the soil which often is beaten down rather hard by Spring rains; secondly, though he has been given the orthodox rule for covering seed, for example about twice their thickness or about one-eighth to one-half inch or in some cases two inches deep, has he ever been able to follow out exactly these good rules? We think not. Part of the seeds are covered the correct depth, a part so deep that, though they germinate freely they never break through the soil, and still another part too shallow. All of a given number of seed even if planted exactly the right depth, and in the best manner will not germinate, and all which germinate will not break through the soil and grow into plants; lastly, if there are too many plants in a row or a hill our thoughtful gardener allows the strongest plants to grow, removing the weaker, whereas, if there were approximately just enough, he has to leave the weak plants as well as the strong.

The drills, a mere mark, for small seeds are made 12" to 14" apart and for peas about eighteen inches. It is usually better to sow cabbage, cauliflower,

and lettuce seed in a box placed closely before a window in a rather cool room, and to transplant the seedlings when large enough into the garden rows, but they can also be sown in the garden not throughout the drills but in hills, as it were, the distance apart the plants ought to stand. After the seeds are sown they are pressed into the soil a little with the back of the rake, covered slightly, this covering being made firm with the rake, and lastly covered slightly again, this last covering being left loose.

In the matter of thinning the gardener takes time by the forelock and thins as soon as he can get a hold on the seedlings with his thumb and finger, choosing the afternoon for this work or the period just before rain is imminent leaving, of course, the stronger plants. In the care of beets and several other vegetables, which make dainty morsels for the table even when very young, half thinning is practiced at first, for example, if the beets ultimately are to stand five inches apart at first they are thinned to stand two and one-half, and later to stand five, the plants taken out at the second thinning giving a vegetable delicacy for the table. Thinning requires good judgment.

(Continued on page 148)

DUNHAM WATER-WEIGHT ROLLERS

Trade Mark

YOUR Lawn Needs Rolling

The DUNHAM WATER-WEIGHT ROLLERS have almost entirely supplanted the old Cast Iron and Concrete Rollers.

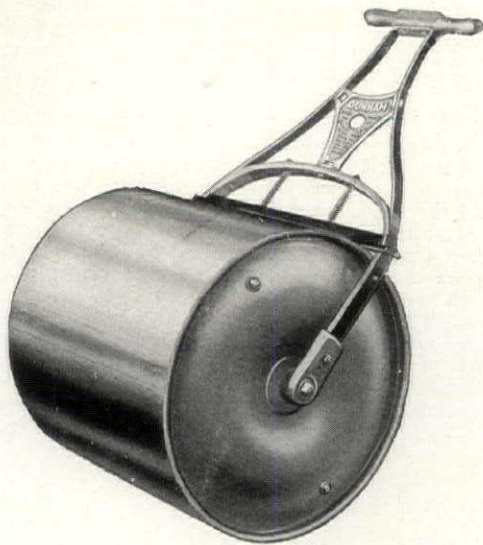
The DUNHAM WATER-WEIGHT ROLLERS have a Steel Drum into which Water can be poured until the Roller is just the weight for the work at hand.

Made in a variety of Sizes and Weights, including a Roller for Horse or Tractor.

Lawns need rolling when the grass is new; also when the turf is soft in the spring, and through the summer when they are dry and hard. At times they will stand the heaviest weight and at other times the Roller should be lighter.

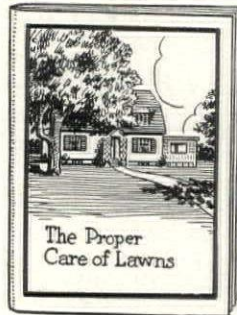
The DUNHAM WATER-WEIGHT ROLLER can be made as heavy or as light as desired by simply putting in the right amount of Water or Sand.

For storing away or for moving, it can be emptied entirely and is light and easy to handle.



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WITH "NO-TIP" SCRAPER

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ON LAWNS



The Proper
Care of Lawns

32 pages, illustrated.
Written by L. J. Doogue,
Superintendent of Public
Grounds, Boston, Mass.

A Treatise on:-

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Parks, Etc.
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Sold by Leading Seed Houses, the better Hardware Stores and many Department Stores
Insist on the DUNHAM, "THE BEST ON EARTH"

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3 Magnificent Water Lilies \$3

Tricker's "Arlington Trio" may well be called the "Three Graces" of all the Hardy Water Lilies. For tub or pool culture they are unsurpassed, showing their dainty white, pink, and yellow blooms at the same time, and in the greatest profusion.

Three Marliacea Varieties
(One plant each of the
"Arlington Trio") FOR \$3

This charming Trio, with a number of other fine Water Lilies, is pictured in natural colors in

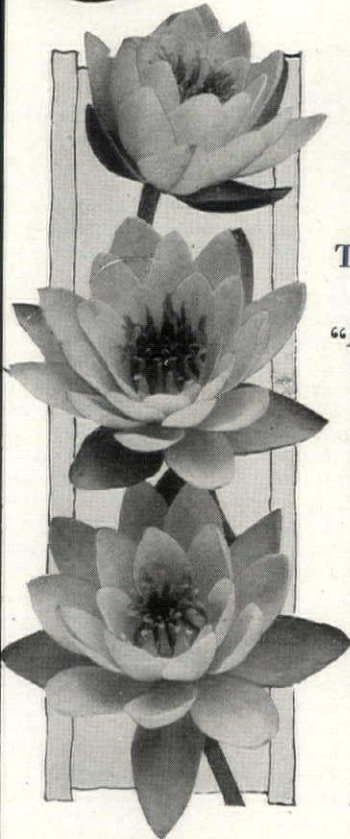
Tricker's 1923 Catalogue

This book features a new and novel form of gardening, in which Water Lilies, Lotus, Victorias and various water plants play the chief part. You will be interested beyond belief. Write me today for a copy.

WILLIAM TRICKER

Water Lily Specialist

662 Forest Street
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Beautiful Cosmos

Flaming its profusion of beautiful bloom it remains the glory of the garden, most appreciated after more tender flowers have surrendered to the early frosts.

Send for our free catalog. It lists only the choicest strains of many varieties of bulbs, seeds and shrubs. We especially recommend our offerings of Sweet Peas, Asters, Dahlias, Gladioli, Hardy Perennials, Ornamental Shrubs and Vegetable Seeds; they please the most discriminating grower.

Send for the catalog now.

Fottler Fiske Rawson Co.
Boston, Mass.

Hardy Roses for Northern Gardens

WE have keen winters here at Rosedale. Zero temperatures are not unusual. All of our Roses have proven hardy. They will succeed in Northern gardens if cared for in the simple manner described in our catalog.

There are Rosedale Roses for every planting purpose. Dignified Standard (tree-form) Roses for the formal garden. Romping Climbers for screening the porch or decorating the chimney. Hybrid Teas and Perpetuals in a rich variety of colors for cutting. All will bloom riotously with very little care.

All our Roses are field-grown, heavy two and three year old plants. Planted in April they will often begin blooming by mid-June and some varieties will continue until frost time.

What Rose Lovers Say About Rosedale Roses

(Names furnished on request)

We unpacked and planted the Rose Bushes Saturday last, three days after they arrived. We found them not only in fine condition but well "cut back," leaving nothing to do but proper planting and after care.—New York.

I shall want a few more Roses this year, and yours are the best I have been able to get.—Massachusetts.

The Roses shipped by you April 20th reached me April 27th in splendid condition, and were in every way satisfactory.—Idaho.

Your shipment of Roses to us was so satisfactory we wish to order more and would like your general catalog.—Illinois.

Meet Us, Mar. 12—17, at the "Booth of Big Evergreens"

NEW YORK FLOWER SHOW

Read about our complete line of Hardy Roses, Fruit Trees in ordinary and bearing sizes, Evergreens, Shade Trees, Shrubs and Vines in our

Illustrated Catalog

All Rosedale Planting Material is priced "As Low as Consistent with Highest Quality". You will effect a big saving and assure satisfaction by ordering direct from our Nurseries.

ROSEDALE NURSERIES

Box H

Tarrytown, N. Y.

Standard Tree-form Roses from Rosedale

The Succulent Vegetables of Spring

(Continued from page 146)

Shallow and frequent cultivation is a *sine qua non* in good gardening. It conserves the moisture at the roots of the plants where it is required, and obviates the labor of watering. To pull up and hoe up the weeds is not sufficient, the garden rake must be kept in action so as to make a dust mulch alongside the rows of plants.

It is a good practice to dig enough stable fertilizer into the soil, and rake into its surface or into the seed drills enough chemical fertilizer so that the latter will give the crop a quick start, and the former carry it out till it is in its growth, and rather than to be done before the plants are checked ready for use. If, however, fertilizing the growing crop is practiced, it should be compounded with some chemical fertilizer by ourselves. We prefer to use "A complete vegetable manure for heavy" or "for light soil", as the case

may require; raked in alongside the rows. The thoughtful gardener gathers his vegetables as soon as they are barely large enough to eat; then they are tender and have a delicate flavor. It is a great mistake, to allow vegetables to grow to approximately full size so that the crop may measure up big. A beet pulled when the size of a nickel may in tenderness and delicate flavor be compared to a pound and a half spring chicken and a full grown one to a two year old hen. In the one case you have delicate flavor, in the other, size. Most of us really have to force our selves into the good habit of gathering vegetables when quite young. Just seeing in our "mind's eye" on our table a side dish of French Forcing carrot and Laxtonian peas, gathered young makes us rejoice in the poet's thought: "If winter comes, can Spring be far behind?"

Fifty Good Flowering Shrubs for the Garden

(Continued from page 63)

Native red osier, *cornus stolonifera*, is a valuable shrub for the massed enclosure. Its liveliness is not confined to one season. When its leaves fall in the Autumn the brilliant red of its branches is exposed for Winter effectiveness. In the Spring it is flecked with white flowers and later with waxy berries. It is sturdy and compact in growth and quite the hardiest of the cornels. Almost any soil or exposure will satisfy it, but it prefers a slightly moist situation. It can be counted upon to attain a height of 10'.

Bush honeysuckle, *lonicera morrowii*, should be planted in clumps of not less than six and toward the front of the shrubbery grouping where its drooping branches will make their graceful contacts with the ground. Early in the Spring it is covered with small white flowers, and the bright red berries that appear in late Summer cling to the twigs through the Fall. Clumps of Morrow's bush honeysuckle should not come immediately against other shrubs of a coarse, rigid habit of growth. The delicately curving lines of this shrub, with its slender fragile branches, should merge into plants of somewhat similar tendencies. That is the real secret of good shrub grouping. Adjoining clumps should not have their lines of demarcation made too strongly apparent. The bush honeysuckle named here will grow to a height of from 6' to 12'.

Common lilac, *lonicera vulgaris*, earns its right to a place in the heavy shrub order by the loveliness of its foliage and the wealth and quality of its fragrance in flower. It is a powerfully growing affair, as everyone knows, and will make innumerable layers which may prove troublesome if they get out of hand. 20' is not an unusual height for this shrub to go. Its great panicles of bloom stand from it during May and early June. If it is to receive pruning, the knives and shears should be applied fairly soon after the blooming season, as the buds for the following Spring begin to form immediately. The lilac is a statuesque shrub and its commanding stateliness should be taken into account when it is planted by giving it an important situation and by arranging the different groups (if there be more than one) with a certain symmetry.

Mock orange, *philadelphus coronarius*,

is justly fond and familiar. Its Spring blossoms are among the nicest, with their white petals and yellow centers and their romantic perfume. It should be planted somewhere back of the actual front of shrubbery grouping, where its tendency to become ragged with age will not be particularly noticeable. It is not to be moved after planting; it should be given plenty of room in which to develop—at least 3' in every direction from its center. It will grow to a height of 10' with ease.

Out of the great family of the *Viburnums*, all of which are interesting and attractive shrubs, mostly large-growing and informally shaped, with brilliant Fall foliage and colorful fruit, the two varieties, *dentatum* and *tomentosum* seem particularly suitable for the purpose of heavy mass planting. Arrowwood, *V. dentatum*, is a robust grower attaining undisturbed a height of from 10' to 15', blooming white in Spring and early Summer, and carrying shiny black berries through most of the Winter. Single Japanese snowball, *V. tomentosum* (so called because its more famous cousin, *V. tomentosum plenum* sports a showy ball-shaped cluster of flowers), is a neater and smaller (8' shrub than the other, with handsome foliage and attractive white blossom (May and June), and fruit that appears a brilliant red, turning later to a purplish black.

Pearl Brush, *exochorda grandiflora* so called because the unopened buds of its flowers resemble pearls, is a well shaped shrub attaining a height at maturity of from 10 to 15'. It has a graceful slender habit of growth and is a splendid thing to plant against clumps of bush honeysuckle. It is a prolific, late Spring-blooming plant with white flowers.

SHRUBS FOR HEDGES

Many of the shrubs which are neat and compact in their habits of growth are suitable to use for hedges in an untrimmed state. *Spiraea Van Houttei* for example, makes a splendid hedge for the property line where space is not at a premium; and there are plenty of other similar types. But for the average garden enclosure a free growing hedge takes up too much room. It should

(Continued on page 150)



WREN HOUSE

Wrens eat grasshoppers, beetles, caterpillars, spiders and mosquitoes. One pair will catch six hundred insects a day. Of fir wood with cypress shingles and copper coping. Four compartments. To hang 28 in. high, 18 in. diameter. Green. Price \$6.00

Dodson Bird Houses



Their chisel bills and sharp tongues bore deep into the bark where insects lurk. You could not see these insects till the tree was dying! The early robin hunts March-flies! Each Dodson Bird House attracts some helpful bird. Order now from Kankakee. Mr. Dodson will gladly advise you. Save the garden, the trees and the shrubs!

JOSEPH H. DODSON 731 Harrison Avenue KANKAKEE, ILLINOIS
Mr. Dodson is President of the American Audubon Association



PURPLE MARTIN HOUSE

Martins feed almost entirely on winged insects, especially the mosquito. One martin will eat a thousand a day.

Cottage style, white pine painted green and white, 28 compartments. To go on pole. 26 x 27 x 31 inches. Price \$16.00. Other styles up to \$78.00.



WOODPECKER HOUSE

Woodpeckers devour as many as 75 kinds of costly insects. They destroy moths, ants and spiders, and those pests that attack trees.

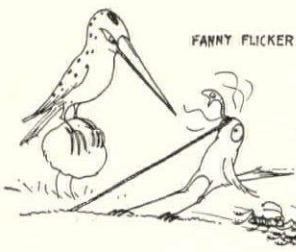
Of Norway pine with cypress shingles, ventilated perfectly. To attach to tree trunk. 26 in. high, 12 in. wide. Bark brown. Price \$6.00.

FAMOUS DODSON SPARROW TRAP

English sparrows do no work. They attack the song birds, eat their eggs and young. This sparrow trap will free your grounds of this pest.

Of tinned wire, weatherproof, 36 x 18 x 12 in. Price \$8.00

FREE Mr. Dodson's fascinating booklet "Your Bird Friends and How to Win Them" will be gladly sent upon request. It shows all the houses. Forty years' loving study of the song birds has completed it. A house for every bird in every clime!



FANNY FLICKER:— S'POSE LIFE'S PRETTY EASY IN A DODSON HOUSE?

MICHAEL MARTIN:— EASY NOTHING! I'M AFTER A THOUSAND BUGS A DAY. A GOOD HOME MEANS A BIG FAMILY AND THAT'S WHAT I'VE GOT THIS YEAR.

RID THE GARDEN OF INSECT PESTS NOW

When the green things appear, tender plants and buds, you'll need the song birds. They are the destroyers of the insect pests. That is why you see more Dodson Bird Houses each year, why they are an important investment. These little scientific houses attract the birds season after season and help multiply these cheerful workers. Your trees, for example, need the woodpeckers.



Bobbink & Atkins

Ask for
Catalog



Visit
Nursery

ROSES

Our descriptive New Rose Catalog, profusely illustrated in color and black, is replete with the largest and most complete collection of Roses in America. All of our plants are two years old, low-budded and field-grown. We shall gladly mail a copy of this complete Rose Catalog to those who intend to plant Roses.

In our 500 acres of Nursery, we grow everything for the complete planting of every style of garden.

LILACS

EVERGREENS

JAPANESE YEW

HARDY AZALEAS

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TREES AND SHRUBS

ROCK GARDEN PLANTS

OLD FASHIONED FLOWERS

FRUIT TREES AND BUSHES

BROAD LEAVED EVERGREENS

AMERICAN AND JAPANESE HOLLY

GIANT FLOWERING MARSHMALLOW

The above are described and priced in our Illustrated General Catalog. When requesting Catalog, please state in what you are interested.

Nurserymen & Florists

Rutherford

New Jersey

Two Cucumbers

to a Yard



The Vaughan Cucumber

INCOMPARABLY the finest salad cucumber which can be grown outdoors in America. It produces long, slender fruits of a cool, dark green, which when still immature and of the finest table quality, commonly exceed 14 inches in length and are of ideal proportions, the greatest diameter never exceeding one-fourth the length. There is no variety to compare with it in size or quality. It grows vigorously under ordinary conditions and needs no coddling. Packet 10 cents; Oz., 40 cents.

Vaughan's Dahlia Flowered Zinnias

FOR the first time we offer these splendid flowers, which often exceed 6 inches in diameter, in seven colors: DREAM, a deep lavender; OLD ROSE; EXQUISITE, a light rose, center deep rose; GOLDEN STATE, a deep orange; SCARLET FLAME, a bright scarlet with blendings of orange; MONARCH, a crimson giant; and ORIOLE, orange and gold. Each of these, 25 cents a packet, or all seven for \$1.50.

A New Race of Giant Asters

CALIFORNIA Giants combine the robust habit of growth and length of stem that characterize the American Beauty type, with the Ostrich Feather type of flower. We offer them this year for the first time in three varieties: PEACHBLOSSOM, DARK PURPLE and LIGHT BLUE. Each of these, 15 cents a packet, or the three for 40 cents.

A Rainbow Garden of Gladioli for \$1.

30 bulbs of flowering size (the size we plant for cut flowers) including not less than 10 named varieties, of Gladioli grown on our Michigan farms, where conditions are ideal for the production of this flower, sent postpaid for \$1.00. An introductory offer to show you Vaughan's quality bulbs.

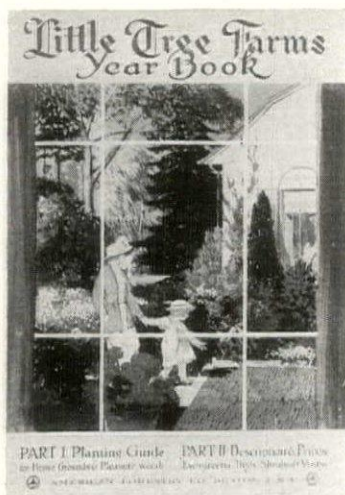
Vaughan's Seed Store

10-12 W. Randolph St.,
CHICAGO

41-43 Barclay St.,
NEW YORK

Fifty Good Flowering Shrubs for the Garden

(Continued from page 148)



This Year Book of Little Tree Farms

has been written to help you make your home grounds more beautiful.

It presents in concise non-technical language the story of "How to Plant"—from a simple doorstep or foundation planting to elaborate landscape effects for great estates. This story, illustrated by hundreds of fine photographs, will help you decide what effect you want, what materials to use, and will tell you what it will cost. Many special groupings and combination offers make decision simple.

This book is sent free. Write for it.

We cannot hope to meet all the friends of our Little Tree Farms face to face. This book, therefore, is its personal representative, informed with all our knowledge and experience, all our enthusiasm and desire to serve you, to the end that it may be truly helpful and thus fitly represent Little Tree Farms.

The "6 for 10" Friendship Evergreen Box

(See illustration below)

To acquaint you with the character of Little Tree Farms service and products, we offer you the collection illustrated, for ten dollars.

JUST the right varieties to plant at your doorstep, under that bay window, or in that corner of the lawn where you have often wanted to put something. Each of these is a specimen plant, selected for vigor of growth, fine shape and beautiful color in combination. It is an exceptional value, for it is to perform an exceptional service. It is to show you what ten dollars will do for you when invested in plants grown at Little Tree Farms.

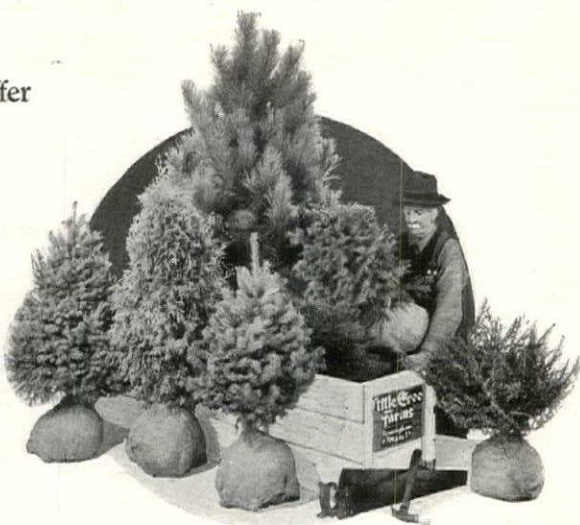
- | | |
|------------------------------|--------------------------|
| 1 Blue Spruce 2'-3' tall | 1 Arborvitae 3'-4' tall |
| Ground Juniper 1 1/2'-Spread | 1 Douglas Fir 2'-3' tall |
| 1 White Spruce 2'-3' tall | 1 Red Pine 5'-6' tall |

They are three times transplanted, their roots in a ball of native loam, burlap wrapped. The whole shipment, carefully crated, is delivered free to the Express Office at Framingham, Mass. Please enclose remittance with order.

"6 for 5" Friendship Offer No. 2

- 3 Arborvitae
3 White Spruce
or 6 of either
18 to 24 in. tall.
\$5.00 (remittance with order)

Bright bushy little fellows just the right size for pots or to "Chink in" around their big brothers of our "6 for 10" offer above. Shipped in one burlap bundle roots packed in moss—average shipping weight 25 lbs.



be trimmed to a formal shape. The following shrubs are kinds that are nicely susceptible to the knife and shears.

Box-barberry, as the name suggests, is a dwarf horticultural form of *Berberis Thunbergii*, resembling somewhat *Buxus sempervirens*. It is beautifully adapted to low edgings for the flower beds as it is extremely neat and compact and can easily be shaped with the shears.

Hardy orange, *citrus trifoliata*, is one of the finest shrubs available for hedge purposes. It is not really of the *citrus* (orange) family, but of the *ponicirus*. Its branches are green, stout, and covered with strong thorns, making it attractive even in Winter, and utterly impenetrable as a hedge. White flowers cluster along its bare branches in early Spring. The blossoms are quite large—from 1 1/2" to 2" across and very fragrant. The leaves are waxy green. It will make an ideal hedge from 24" to 36" in width and from 5' to 7' in height.

Different sections of the country have their favorite privets, but *Ligustrum ibota*, is perhaps the most widely used variety for hedges. It is the hardiest, and is upright in growth and vigorous.

Buck-thorn, *rhamnus cathartica*, is a dense growing, thorny shrub, with clusters of white flowers in the Spring and clusters of black berries in the Fall. It attains a height of 12', and is splendid for a hedge of fairly bulky dimensions.

Japanese quince, *cydonia japonica*, being a particularly beautiful and showy shrub, with its glossy, deep green leaves and its brilliant blossoms, is more often used as a "specimen" than as a part of a mass planting or in a hedge. It can, however, be nicely shorn into hedge shapes without any particular sacrifice to its loveliness. It blooms red in May, although the variety *C. japonica sulphurea* has luscious and less penetrating flowers of yellow. 6' is a good height to count upon when it is used as a hedge plant.

European horn-bean, *carpinus betulus*, is technically a tree, but its habit of branching from the stem at the ground draws it reluctantly into the shrub class. Made into hedges it encloses most of the gardens of France. It clips nicely and its branches knit together to form an effective barrier. It grows so large that it should be made into hedges that can run to considerable size, say from 12' to 15'. It has

no noticeable flower. Its foliage and bark resemble the beech.

The shrub commonly called sea buckthorn has the picturesque name of *hippophae rhamnoides*. Its branches are of a nice gray tone when denuded of their leaves, and they are generally covered with heavy thorns. The very small yellowish flowers appear before the leaves. It is a large growing shrub and should be used only for tall and wide hedges. It stands shearing well and makes a closely matted enclosure for the garden or grounds. In its natural state it will grow to a height of almost 30'.

Cockspur thorn, *crataegus crus-galli*, is used extensively in France, and England as a hedge plant both in sheared and unsheared state. Its small white flowers appear after the leaves in late Spring and are followed in late Summer and Fall by bright red berries. It will attain a height of 15', but it can be kept down to a hedge of more moderate dimensions.

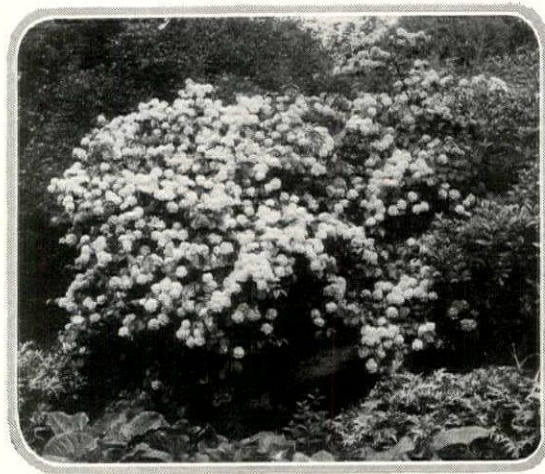
Russian oleaster, *eleagnus angustifolia*, is a tall, erect shrub with attractive silvery green foliage, blooming yellow in late Spring and brilliant with fruit of the same color in the Fall. It is a splendid plant for hedge use where a good sized enclosure is required, as it will grow to a height of 12' or more.

Rose of Sharon, *hibiscus syriacus*, is one of the most familiar shrubs in the country, yet it is seldom used as a hedge plant—a place for which it is perfectly adapted. Very often it can be left unclipped, as its growth is erect, but intelligent trimming will make it more compact and prevent an awkward legginess. It will grow easily to a height of 15'. It flowers in mid-summer for a considerable period, and its blossoms, according to the variety, are white, pink, blue, lavender and red.

SHRUBS FOR SLOPES

In hillside gardens where there are slopes to be covered, the following shrubs can be used to splendid advantage. The choice should be determined by the length of the slope and the character of the garden, for some of the shrubs are neat in their habits and especially suitable for covering small areas, while others are so vigorous and spreading that they would soon over-run a small place.

(Continued on page 152)



An unusually fine specimen of Japanese snow ball, *Viburnum tomentosum plenatum*, shows what a gorgeous mass of bloom may be obtained in the shrubbery planting

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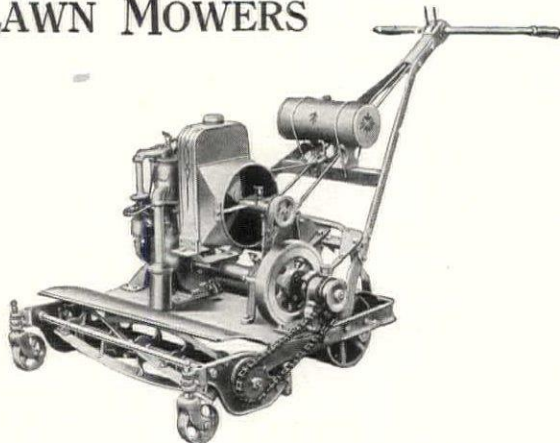
Little Tree Farms

AMERICAN FORESTRY COMPANY.

419 Boylston Street

Boston, Massachusetts

COLDWELL LAWN MOWERS



When the Grass Begins to Grow

A Coldwell Mower should be handy. And if you want your lawn to be a suitable setting for your beautiful home, an early start and very frequent trim are necessary.

Coldwell's Model "L" is best adapted to frequent mowing—its large capacity, six acres per day, saves time and labor for your gardener. Gentle rolling of the 25-inch swath follows the cutting action immediately, smoothing the lawn, and eliminating lawn pests.

In mechanical detail, the Model "L" is highly perfected, and its Fuller and Johnson motor so trouble-proof that inexperienced hands may easily operate it.

We will tell you more or arrange to demonstrate, at your suggestion.

COLDWELL LAWN MOWER CO.
NEWBURGH, N.Y., U.S.A.



THE garden, even of the tiniest dimensions, does not seem complete without the simple dignity of garden furniture. Learn how the charm of your garden may be enhanced by

Norristone Garden Furniture

Norristone Art embraces a complete range of architectural adornments from sun dials and seats, bird baths and benches, gazing globes and lanterns, to fountains, flower pots and pedestals.

Development of your own original designs in Norristone Cut-Cast granite is a specialty. Send 35c for book of reproduced photographs.

Norristone Studios

107-137 Norris Street,

Rochester, N. Y.

Harold Mac-Grath, author of "The Pagan Madonna", "The Drums of Jeopardy", and "The Man With the Three Names", in a corner of his garden at Syracuse, N. Y., with Jackie Coogan, "The Kid", of movie fame as a guest.

HARDY PLANTS

in quantity of
unusual quality

LAST summer was the most favorable summer for the growing of hardy plants in the open fields we have ever experienced in the history of our business.

Due to these unusual weather conditions we were able to produce about 1½ million more plants than we did the year before. The same good results were obtained in growing our Gladioli.

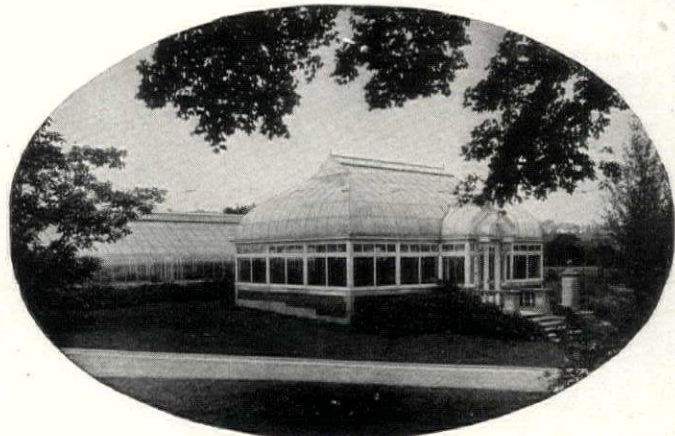
In view of these facts we want to pass on to our customers a share of our good fortune in the following manner.

For each \$10.00 worth of Hardy Plants ordered from our spring catalogue you may select \$2.00 worth of Gladioli Primulinus, free of charge from our Gladioli list enclosed with our plant catalogue. This offer is good for as long as our Gladioli Primulinus hold out.

Furthermore, we guarantee, that each and every plant and bulb we send out is true to name, of the highest quality and a strong field grown clump or root, and if upon receipt they are not what you expect them to be, do not have to be paid for.

Our 1923 Hardy Plant Catalogue is now ready. May we send you a copy?

Wayside Gardens
Mentor, Ohio



V-Bar Greenhouse built for Emil Winter, Pittsburgh, Pa.

V-Bar Greenhouses

Lutton Galvanized Steel V-Bar Greenhouses are of superior quality which insures satisfaction.

They are not surpassed by any when considered from standpoint of appearance, sanitation, durability or economy of operation. If you are thinking of building a Greenhouse or Conservatory we would appreciate an opportunity of proving the above statement.

Will a Flat Rafter or a Commercial Iron Frame Greenhouse do? If so, we build these also; but the cheapest, of course, is not the best.

We build greenhouses anywhere and of any size and shall be glad to co-operate with you, whether you want to buy the materials and build your own from our plans and directions or whether you want us to erect your Greenhouse complete.

Our practical designing and construction experts are at your service without charge.

W. H. LUTTON CO., Inc.



Main Office and Factory; 267 Kearney Ave., Jersey City, N. J.

Fifty Good Flowering Shrubs for the Garden

(Continued from page 150)

La France

Giant Everbearing Red Raspberry



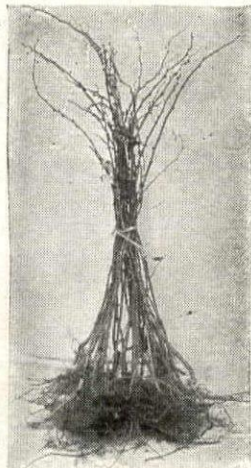
SUPERIOR in every way to any raspberry under cultivation; absolutely hardy everywhere; free from disease; most prolific, producing from June until heavy frost continuously, strong branches loaded with immense clusters of luscious, meaty, large berries, of the finest aroma and containing but few seeds.

Awarded medals and certificates by leading Agricultural and Horticultural Societies, including the Massachusetts Horticultural Society, Horticultural Society of New York, The American Institute of New York, etc., etc.

The plants we send out average three to four feet in height. The wood is at least a half inch thick, and on the clump of roots, several suckers may be found. They will bear fruit the first season planted, and they multiply rapidly.

Strong Plants

\$ 3 for six,
\$ 5 per dozen,
\$40 per hundred.



A bundle
of twenty-
five plants

Safe delivery guaranteed in proper
time for planting if ordered now.

Address
Department C-15

"La France" Raspberry Farm
Fairfield Ave. Stamford Conn.
ABSOLUTELY NO OTHER RASPBERRIES OR FRUITS

It is grown in
the gardens of

J. P. Morgan,
Glen Cove, N. Y.

P. S. Du Pont,
Wilmington,
Delaware

Chas. M. Schwab,
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John D.
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Pocantico Hills,
N. Y.

Wm. K.
Vanderbilt,
Hyde Park, N. Y.

Henry Ford,
Dearborn,
Michigan

and thou-
sands of
others who
demand the
world's best.

Shrub yellow-root, *zanthorhiza apiifolia*, is a colorful, usually low-growing shrub for the purpose. Its flowers, blooming in April, are small and purplish. The foliage is handsomely cut and turns a brilliant orange in the Fall. The stems remain a warm yellow throughout the year.

A loosely growing type of barberry, *berberis vulgaris lutea*, is a welcome variation from the more commonly used varieties. Its foliage and inconspicuous flowers are similar to the familiar *berberis Thunbergii*, but is more spreading in habit, and its berries in late Summer and Fall are a delightful golden color. It will grow to 6'.

A bank covered with weeping golden bell, *forsythia Fortunei suspensa*, presents one of the most thrilling sights of early Spring when its branches are crowded with yellow flowers. While its stems become quite lengthy they run horizontally and the mass of the shrub rarely reaches a height of more than 4' or 5'.

Similar in many ways is *Jasmine nudiflorum*, though it hugs the ground rather more closely than the forsythia. Its flowers are pale yellow and flower before the leaves appear, often before any other flower in the garden. Its branches are a bright green, so that its Winter aspect is constantly cheerful. Being essentially a trailing plant it seldom rises more than 2' above the ground.

Coral berry, *callicarpia purpurea*, is a splendid plant to mass over a slope where its beautiful violet-colored berries can be seen and appreciated in the Autumn. Its late Spring flowers are pinkish and somewhat inconspicuous. It grows to a height of 4'.

Bittersweet, *celastrus scandens*, is very often listed as a vine, but it is such a robust grower and takes on such shrub-like characteristics that it may well be included here. It has been known to be vigorous to the point of being destructive, reaching out its grasping tentacle-like branches and actually pulling down young poplars within its grasp. A few plants will cover a large bank very quickly. Toward Fall it carries brilliant yellow-orange berries.

Desmodium, *desmodium penduliflorum*, is filled with drooping sprays of rosy-purple flowers late in the Summer, and forms a fine, colorful ground cover. Some of its spreading branches will attain a height of 5' or more.

The chief characteristic of bayberry, *myrica cerifera*, is its waxy gray fruit which hang along its branches in the Fall and which can be boiled down into a substance for making candles. Its leaves are gray-green in Summer and turn a purplish bronze in the Fall. It is especially valuable for covering slopes of poor or sandy soil. It will grow to a height of 5' or more.

Matrimony vine, *Lycium chinense*, has purple flowers in late Summer and brilliant red fruit in the Fall. It is extremely spreading in habit and will form a low well-knit matting to prevent any washing out during heavy rains or violent thaws.

Shrubby honeysuckle, *diervilla sessifolia*, is much heavier and larger flowered than the honeysuckle vine. Its blossoms in June and July are from pink to crimson. Spreading in habit, it rarely reaches a height of more than 4'.

SHRUBS FOR FLOWER BORDERS

To give the herbaceous border greater stability and more permanence of foliage and color, some of the smaller

flowering shrubs, such as the ten listed below, may be used. Most of them, because of their size, will have to be placed at the back of the beds, where they will serve admirably as a background. Others, like the deutzia and the summer-flowering spirea, can be used toward the front.

Sweet pepper bush, or *clethra alniifolia*, when it is used in the herbaceous border, should be set in a background corner, against a wall or hedge, for, if it finds itself in the right sort of moist, peaty or sandy soil, it is apt to do some rather vigorous growing. It will never exceed 8', however, and will generally range from 4' to 5'. Its flowers, which bloom from July to September, hang gracefully in long panicles from arching, drooping stems. They are white in the type, but there is a lovely pink variety, *rubra*.

The dwarf deutzia, *deutzia gracilis*, is not the only member of the deutzia family which is suited ideally for the herbaceous border, but it is typical of the smaller varieties. This shrub never attains a height of more than 3', and it can be used among Canterbury bells, pyrethrum and iris with fine effect. Its flowers, blooming in May and June, are white, but in other varieties there are pink ones and some are white and lavender.

Mint shrub, *elscholtzia Stauntonii*, is an especially appropriate shrub for the herbaceous border in the garden, not only because it is somewhat herbaceous appearing but because it offers a splendid mass of lilac-purple bloom from September to frost. Its leaves are usually aromatic, its flowers appear in dense spikes from 4" to 8" long, and its average height is 3'.

A small shrub blooming yellow in July and August, erect in habit, is Dyer's greenweed, *genista tinctoria*, suitable for the middle ground of the herbaceous border, where its maximum height of 3' will be effective.

There must be a dozen or more varieties of Shrubby St. John's Wort which would be equally invaluable for shady places in the herbaceous border. Most of them range in height from 12" to 3'. *Hypericum aureum* is perhaps typical of the family. It has large yellow flowers that bloom in July and August.

Another yellow blooming shrub, suitable for the background of the herbaceous border and for the foreground of a shrubbery grouping, is Japanese rose, *kerria japonica*, which flowers from June until frost. It is one of the loveliest of shrubs. Its branches are graceful and perpetually green, and its foliage is finely cut and fluttering. It will grow to a height of 5'.

One of the nicest of the summer-flowering spireas is the rose-pink variety, *Spiraea Bumaldi Anthony Waterer*, which, like most of its immediate family, clusters beautifully among the perennials. It blooms in late Summer, and grows to a height of 2' or so.

The flowers of stephanandra, *stephanandra flexuosa* of the catalogs, are extremely small, but blossom in such profusion that the shrub is a mass of white in June. It is a graceful plant, growing to a height of 4' to 5', and should be placed in the background of the perennial border.

South of Baltimore, bush arbutus, or *abelia grandiflora*, is almost evergreen. It is covered with small rosy-pink flowers from late Summer until frost, and grows normally to a height of 4'.

The Ghent azaleas, especially the clear yellow-blossoming *A. pontica Nancy Waterer*, deserves a place in the herbaceous border. The one named

(Continued on page 154)

DWARF TREES

Best for the home garden

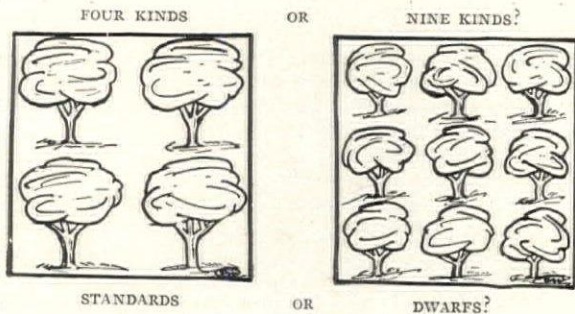


APPLE-PLUM
CHERRY
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Delivery of well grown plants of the above, from 2 1/2 inch pots, at the proper time for planting in May: \$3.00 dozen; \$20.00 hundred.

Plants in 3 inch pots; \$4.00 dozen; \$30.00 hundred.

Other varieties of Heliotrope, described in our 1923 catalog which is yours for the asking.

Charles H. Totty Company

Headquarters for Novelties for your Garden. Roses, Chrysanthemums and Hardy Perennials.

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Really Worth While

Montbretia

is a flower that few people know about, it is one of the most effective and beautiful of the summer flowering bulbs. The graceful form of the flowers and the soft orange and red coloring make them stand out among the most attractive in the whole garden.

The bulbs are set out in the spring and the flowers start blooming in mid-summer. Set out a few bulbs and see the results. The bulbs usually sell for \$1.50 per dozen, but we have raised a large lot and offer them as follows:

5 Bulbs 60c: 1 doz. \$1.00: 50 \$3.50 postpaid

We are large growers of Flower Seeds and plants as well as Vegetable seeds of very superior quality.

If you wish to buy direct from the grower and get fresh seeds raised with the uttermost care and backed by our 44 years experience, ask for our catalogue. There is no charge for it.

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This New Celosia is Both a Summer and a Winter Flower

In Summer the blooms of Celosia chrysantheflora are like huge chrysanthemums. The colors are gorgeously beautiful—golden yellow, lemon, orange, shell-pink, old rose, salmon, mulberry, violet, Nile green, wisteria and maroon.

For winter these colors can be retained by drying the blooms in a dark place; they are more beautiful and more lasting than the “everlasting flowers” for winter decorations.

Mixed colors only, 50 cts. per packet

With your order for a packet of this new Celosia we will send a copy of

Forbes’ 1923 Seed Catalogue

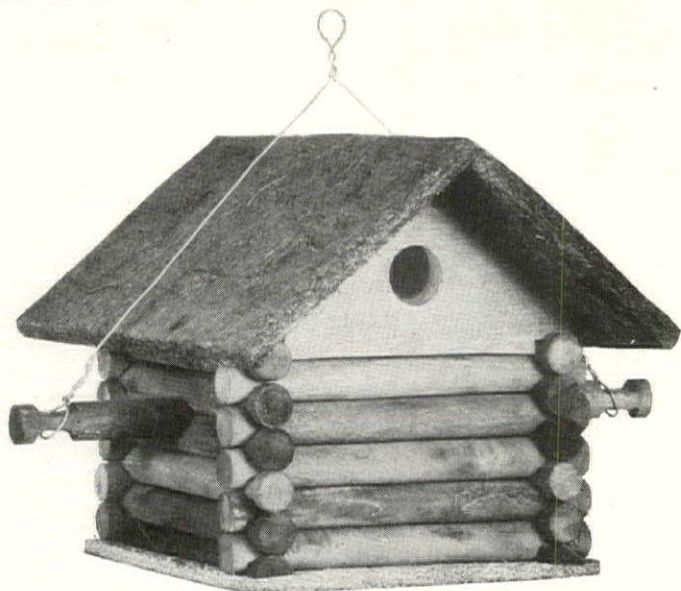
A quarter century’s experience in seed growing is put at your service. Practical helps for amateur and professional gardeners, with cultural notes, make the book valuable to all. To customers it is sent without notice; to others who are interested in Forbes’ Seeds it will be sent on request.

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An Amazing Value

This Attractive
Lincoln Wren House

\$1.00

Here is an unusually attractive bird house—that only wrens can use. It looks like a miniature log cabin. It is made of wood, tinted a soft brown color that attracts the wren; and has a thatched, weatherproof roof.

The song of the wren is melodious and flutelike—its amusing ways make it a favorite with everyone. It destroys large numbers of obnoxious insects; it never hesitates to attack dogs, cats, swallows, and other birds when they near its habitation. But it is astonishingly friendly to human beings.

The Lincoln Wren House can only be inhabited by the wren—and it is built to especially attract them. In appearance it is the equal of wren houses costing five to seven dollars. And yet because we build in tremendous quantities—and ship knocked-down, in a form that any child can quickly put together—we are able to sell this attractive bird house for only \$1.00—prepaid. (West of Denver and Canada \$1.25.)

Here is a real bird house bargain that you should take advantage of!

Attract wrens—they will liberally repay any attention you give them.

Send \$1.00 now for each Lincoln Wren House you want.

Take advantage of this offer today.

If you aren't delighted—money back.

Fill out the coupon below and mail it in now.

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Gentlemen: Please mail at once ☐ Lincoln Wren Houses. Enclosed is \$1.00 for each wren house ordered as above shown. It is understood that you will refund this amount if for any reason I am not delighted with the value. Send to

Name
Street
City
State

Fifty Good Flowering Shrubs for the Garden

(Continued from page 152)

here will be sure to make its presence felt in the early Spring with its brilliant blooms. It will grow to a height of 3' or more and, after its flowering season, present an excellent mass of substantial foliage.

FOR INDIVIDUAL ACCENTS

For accents and formal touches in the garden the following shrubs, because of their definite and more or less regular outlines and compact habits of growth, will be found effective.

There is probably no more deservedly popular shrub than Thunberg's barberry, *Berberis Thunbergii*. Its well rounded shape, its attractive foliage and its colorful aspect in the Fall and Winter, when it is covered with bright red berries, make it especially desirable as a plant to serve as an accent at the intersection of paths, or for any other similar situation in the garden. It is one of the few shrubs which will stand pruning to a smoothly regular shape, so that its height can be controlled. It will grow naturally from 3' to 5'.

Corkbarked euonymus, *euonymus alatus*, is an interesting looking shrub, erect and formal in growth; suitable for placing on either side of a gateway or arbor. It is one of the most brilliantly colored shrubs in the Fall, its foliage turning a burning scarlet to match its bright red berries.

Dwarf mock orange, *philadelphus microphyllus*, has the same characteristics of flower and scent as the larger growing and more familiar types, but it is much more graceful and compact and rarely attains a height over 4'. It blooms in June and July.

White kerria, *rhodotypos kerrioides*, is flecked with pure white flowers in the Spring and carries shiny black, ornamental berries, throughout the Summer among its fine leaves. It will grow into a well-rounded, compact bush about 5' in height and spread.

The flowers of the shrub *stewartia*, *stewartia pentagyna*, are cup-shaped and camelia-colored, the largest blossoms of any of the shrubs, being 2" to 3" in diameter. They bloom in July and August and make at that time an unrivalled show. The plant should be given plenty of space in which to develop as it will grow from 6' to 12' in height.

Snowberry, *symphoricarpos racemosus*, of the catalogs, is more famous for its fruit than its flowers. The berries, as the name indicates, are snow-white and cluster among its attractive leaves from early Summer until frost. The flowers are pinkish and somewhat inconspicuous. The shape of the bush is nicely designed for its use in formal situations. It grows to a height of about 3'.

The French hybrid lilacs are perhaps the most suitable of the type *syringa* to use within the garden, not only because of the neat, compact habit of growth but because of the wide variety obtainable in the matter of bloom. The colors range from white, through the pinks, lavenders, and light blues, to deep purple. They bloom in the Spring and reach a height of 8' to 10'. It is wise to prune them immediately after flowering, as they form their next season's buds at that time.

The flowering almond, *prunus amygdalus comunis*, covered with its white

flowers, is one of the finest Spring blooming shrubs. It will grow to height of 6' or more, but its shape always regular, and suitable for formal touches in the garden, especially either side of the entrance gateway.

Bouvardia shrub is a dwarf form of the viburnum family, *V. carlesii*, compact in its habit of growth and growing to a height of not more than 3' or 4'. In late Spring it is filled with fragrant, purplish-white flowers that last over a long period.

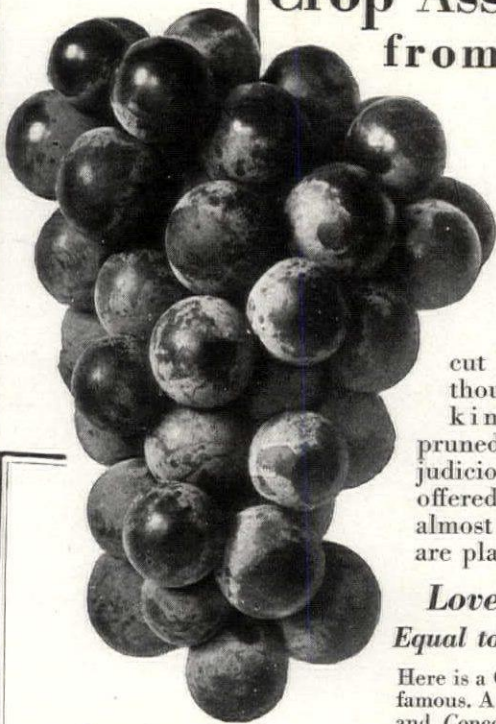
One of the best of the hydrangeas for formal use in the garden is *arborescens*. It forms a well rounded bush of excellent foliage, and is covered in mid-summer with large heads of pure white flowers. It can be kept at almost any height under 8'. Its only fault is that it is not particularly attractive after its leaves have fallen.

SHRUB GROUPING

Next to choosing the right shrub for the right place the important thing to see that it fits smoothly into its environment and that it is handled in the best possible way for the effectiveness of the planting as a whole. For instance, in the first of the uses outlined above—that of mass planting, the individual shrub should be subordinate to the complete grouping. There are two ways in which this desirable effect may be attained. The shrubs should be so located in the grouping that the varieties will merge into each other both in the matter of size and habit of growth. Low growing shrubs like the various deutzias, for example, should not be set against tall growing sorts like the pearl bush. Nor should a clump of drooping plants like *Fed. sythia suspensa* be placed beside a clump of perpendicular growing altheas. All these shrubs may be combined in the same mass, if it is large enough, but the transitions between them should be made by other shrubs. The various clumps of one variety should also be planted in such irregular shaped drifts that the grouping as a whole will not seem mechanically or geometrically arranged. Another thing that destroys the effectiveness of shrub masses is the practice of pruning individual shrubs to a smoothly rounded shape. When pruning is done in groupings of this kind it should be done with the thought of the whole plantation in mind, remembering always that every massing of shrubs is essentially a naturalistic device and that its appearance cannot be authentic or completely pleasing when it is in any way too obviously artificial.

It is possible to effect a decided change in the character of a slope by planting it with shrubs. In some situations it is desirable to give the slope the appearance of being steeper than it actually is. This can very readily be accomplished by using the low growing varieties at the foot of the slope and working toward the top with those which attain a greater height. When the reverse effect is wanted the scheme of planting is simply changed about. On many slopes, especially those within the garden, it is generally more impressive, as well as more appropriate, to use only one variety than to get a mixture of textures and colors.

Crop Assurance from Fruiting Age Vines



Three years ago we prepared to produce Grape vines in connection with which waiting for the crops would be cut short. We planted thousands of them, best kinds, transplanted, pruned and cultivated judiciously. The vines now offered are ready to bear almost within the year they are planted.

Lovett's CACO— Equal to Hothouse Grapes

Here is a Grape bound to become famous. A true hybrid of Catawba and Concord which combines the quality of both and ripens earlier. As a prolific producer of Grapes rich in flavor and sugar contents it stands unsurpassed among hardy garden Grapes.

3-Year old plants, ready to bear, each \$2.00, dozen \$20.00

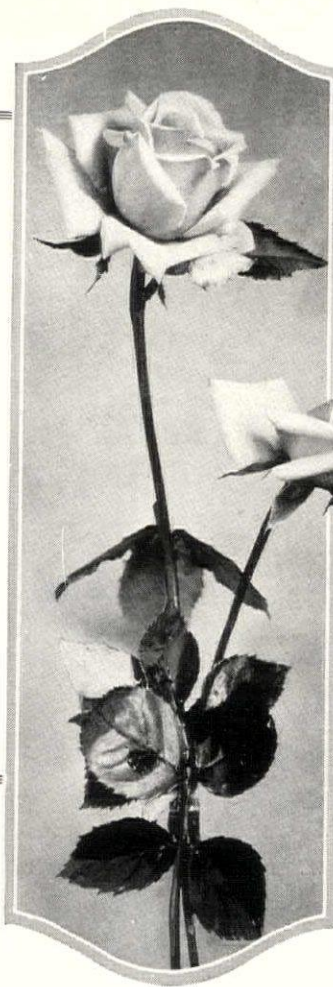
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Describes the choicest obtainable in Strawberries, Raspberries, Blackberries, Grape Vines and all other small fruits. Our fruit trees, both standard and dwarf, are of choicest quality. We also invite your attention to our complete assortment of hardy perennials, truly hardy Roses, shrubs, trees, etc. Please ask for this catalogue to-day—it is free.

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Lovett's for Small Fruits



"Charles Dingee"

We honor this grand rose with the name of the founder of our business because we consider it the most wonderful rose in the world.

WE originated the "Charles Dingee" bush rose in our own gardens by crossing a grand, old, hardy pink rose with one of the best of all the white varieties. The result was a wonderfully strong growing bush with magnificent foliage and continuous bearing of immense, double, grandly formed flowers.

There is a most delicate blending of colors—rose tints in center, gradually shading off into a pale blush creamy white. The flowers from bud to full bloom are unexcelled and are borne on long, stiff, erect stems.

We own and control the entire stock of "Charles Dingee" roses. They can be had nowhere else. It deserves a place in any garden or yard. One-year-old plants, 30c; 4 for \$1.00. Large 2-year-old plants, 85c, by parcel post, prepaid. Extra strong 3-year-old bushes with soil on roots, \$1.25, by express, charges collect.

Our New Guide to Rose Culture for 1923 Sent Free on Request

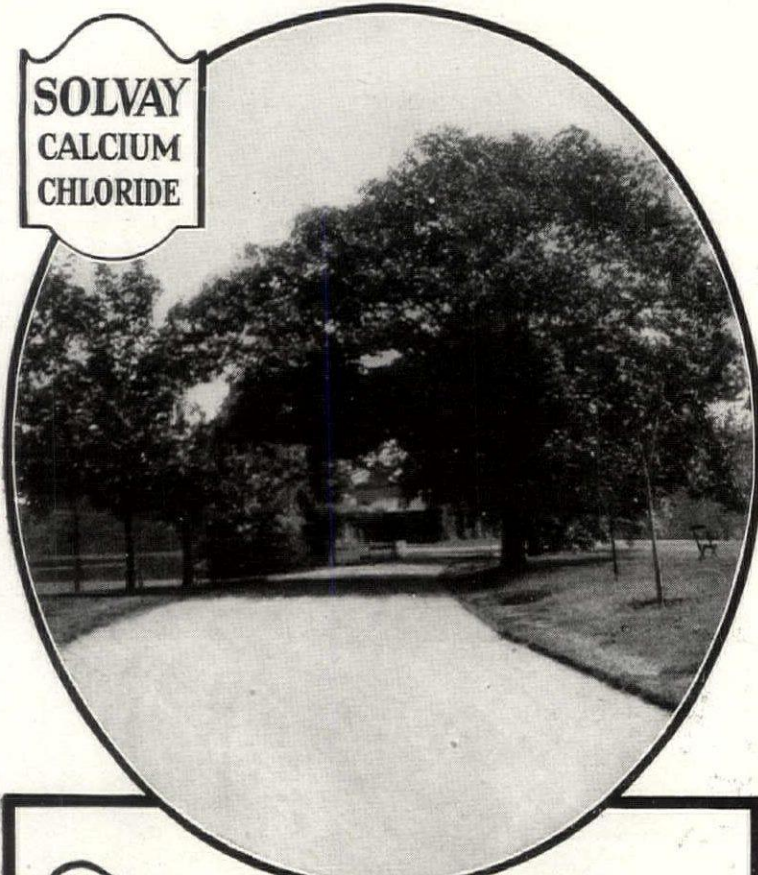
Illustrates wonderful "Dingee Roses" in natural colors. It's the lifetime experience of the *Oldest and Leading Rose Growers in America*. Offers over 500 varieties of roses and other plants, bulbs, and seeds, and tells how to grow them. Edition limited. It's Free!

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70 Greenhouses

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Hunt's Lawn Dressing Seed

A new product that feeds the roots of the grass, insuring perfect growth, fine texture and deep coloring. Not a mere fertilizer, like most lawn dressings.

Unsurpassed for Restoring Old Lawns

Hunt's Lawn Dressing Seed will "liven up" old lawns, force new growth, and cover the surface with a thick turf. Rake the worn spots thoroughly; spread Hunt's Lawn Dressing Seed heavily on these places, and more lightly on the remainder.

Gives New Lawns the Right Start

Spread Hunt's Lawn Dressing Seed at the rate of 25 lbs. to each 250 square feet, after the ground is prepared. A day or two later sow Hunt's Prospect Park Lawn Seed at the rate of 1 lb. to each 250 square feet. This will give a permanent turf, fine in texture, and deep green from spring to fall.

Hunt's Lawn Dressing Seed is recommended for golf courses, particularly Fairways and Putting Greens where the finest surface is demanded.

100-lb. bag, \$40; 50-lb. bag, \$21; 25-lb. bag, \$11; 5-lb. bag \$3.

William M. Hunt & Company, Inc.

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Ornamental Wire Fence, Flower Bed Guard, Trellis Lawn Border and Arches

Improve the appearance of any estate, from yard or garden. There are many conditions which these high grade wire products meet adequately. Write us about your requirements and we shall be glad to furnish you with catalogs and suggestions for your own problem. Excelsior fences and specialties are made with the famous Excelsior clamp construction and galvanized after assembling.

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Excelsior Trellis Arches

The graceful arch, laden with flowers, lends charm and beauty to the garden, and lawn.

Artistic and practicable, we make them to meet your individual requirements. Stock widths three to ten feet; heights seven to ten feet.

Constructed with substantial frame and fabric of Excelsior clamp construction galvanized after assembling, and shipped knocked down. Easily erected.

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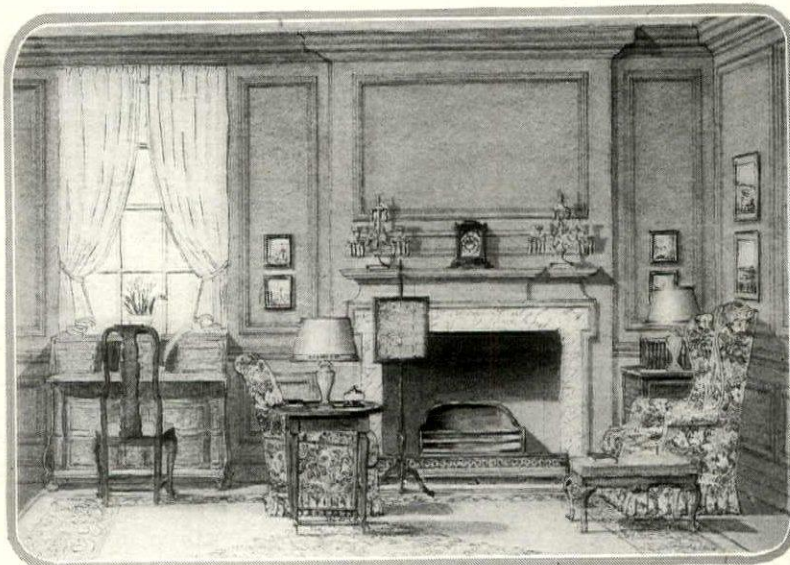
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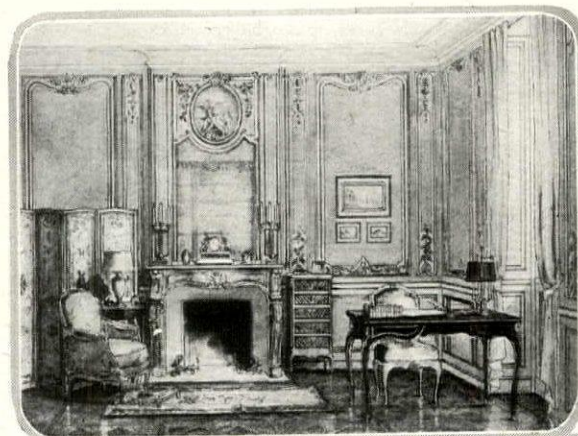
Chicago

San Francisco



The sketches of interiors on this page are by pupils of the New York School of Fine and Applied Art. The one above is by Ruth Withington.

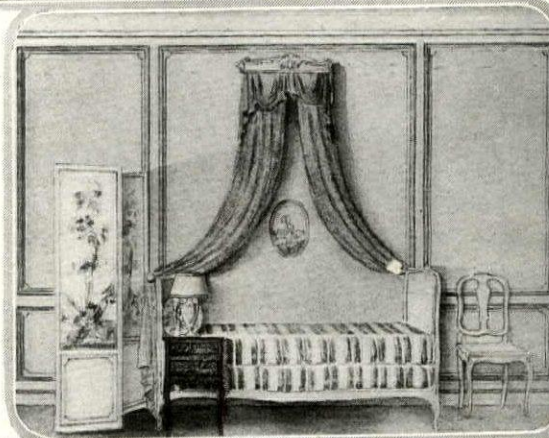
SKETCHES FOR MODEL INTERIORS



Sketch of restoration of the little library in the Hotel de Soubise, Paris. The paneled walls are green with gilded moldings, the hangings yellow. Drawn by Brevard Williams.

A design for a bedroom. Rose hangings, pale blue walls, and bright green in the chair and screen. By Dorothy Cook.

Georgian living room paneled in pine. Yellow hangings and blue-green glazed chintz on chairs. Harry Hazard, Decorator.



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Few flowers, whether used for garden decoration or principally for cut blooms to decorate the home, are as responsive to simple garden culture as our Modern Dahlia. It has made wonderful advancement in size of bloom, habit of growth and profuse blooming qualities.

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12 Dahlia Tubers for \$3.50

—one each of 12 distinct varieties, not labelled, which if purchased separately according to name would cost not less than \$10.00.

Order Your Tubers Now so as to have them ready to plant any time after the tenth of May or when all danger of frost is past.

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HERE is the asparagus to plant in your garden—Washington Asparagus—a new variety developed by the U. S. Department of Agriculture.

No other variety can compare with Washington. It is rust resistant, fast growing and high yielding. The stalks of Washington Asparagus are larger and more deliciously tender than any other market variety.

Our farms have been listed as official suppliers of this newly developed seed and plants.

A package of seeds, or 50 roots, will plant three rows each 50 ft. long, more than sufficient for the average family requirements, and will produce for twelve years.

Send to-day for this special \$1.00 package of selected seeds. Or, if you prefer, send \$5.00 for 50 roots, or \$3.00 for 25 roots.

Postpaid anywhere in the United States. Complete cultural directions with each order.

Prompt ordering is suggested, as the supply is limited.

We have an attractive proposition for the large commercial grower

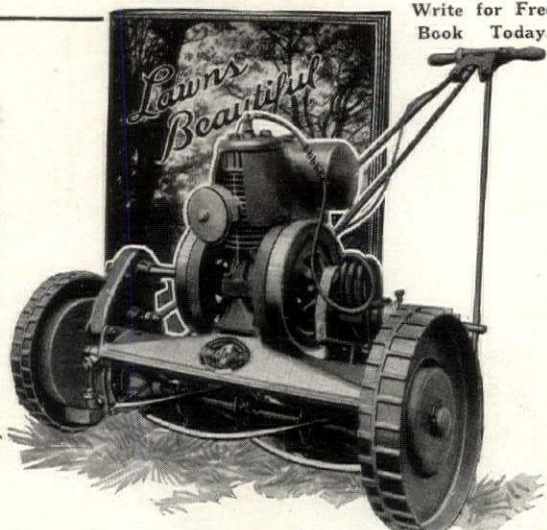
Riverview Farms R. F. D. No. 7. Bridgeton, N.J.

This Book Tells How To Make Your Lawns a Source of Pride

The new enlarged edition of "Lawns Beautiful" tells what many estate owners are doing to improve their lawns, and proves it by interesting pictures.

Lawn Protection is the result of proper cutting

Write for Free Book Today.



The "4-Acre" Power Lawn Mower described in this free book does the work of four or five men with hand mowers—a big saving in labor, and keeps the lawn in perfect condition.

The "4-Acre" Power Lawn Mower

is the standard of perfection in power lawn mowers. Cuts a swath 24 inches wide—4 to 5 acres a day at a cost of less than 40 cents a day. Scientifically constructed throughout. Surplus power for the hills, specially built for close easy work in and out among paths and flower beds—Death to Dandelions, weeds, ant hills and worm casts. Built for sturdy compactness, handiness, simplicity, economy and efficiency.

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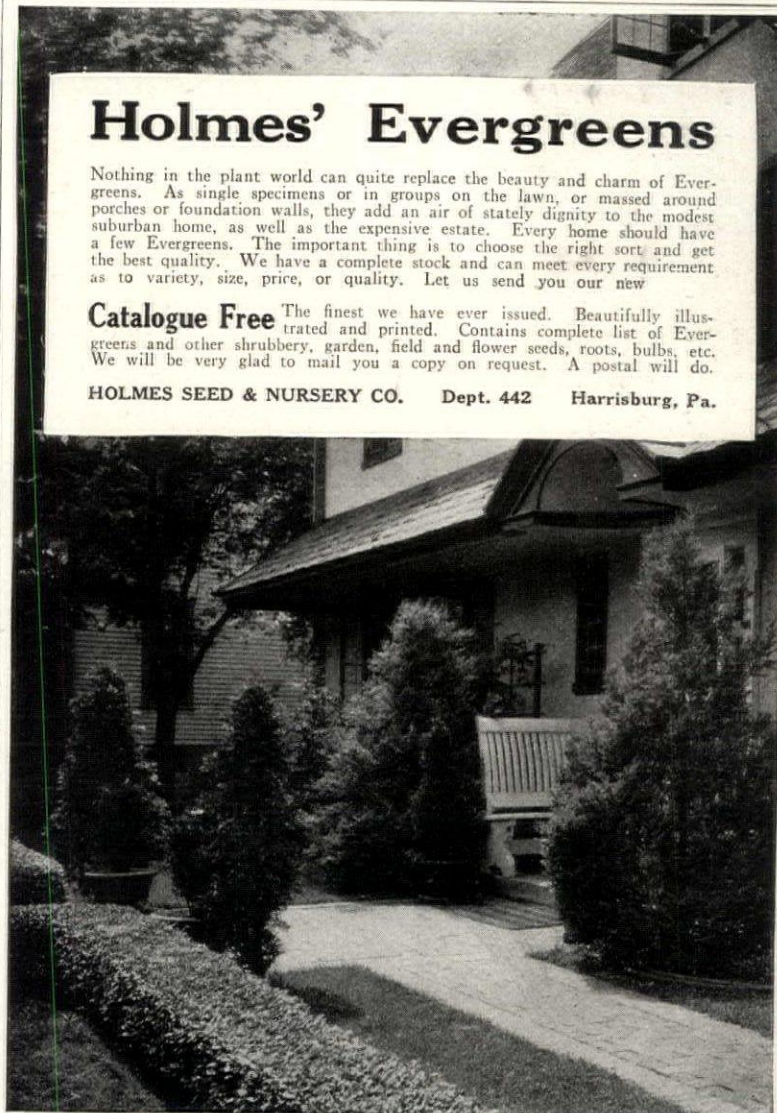
Dept. A, Racine, Wis., U. S. A.

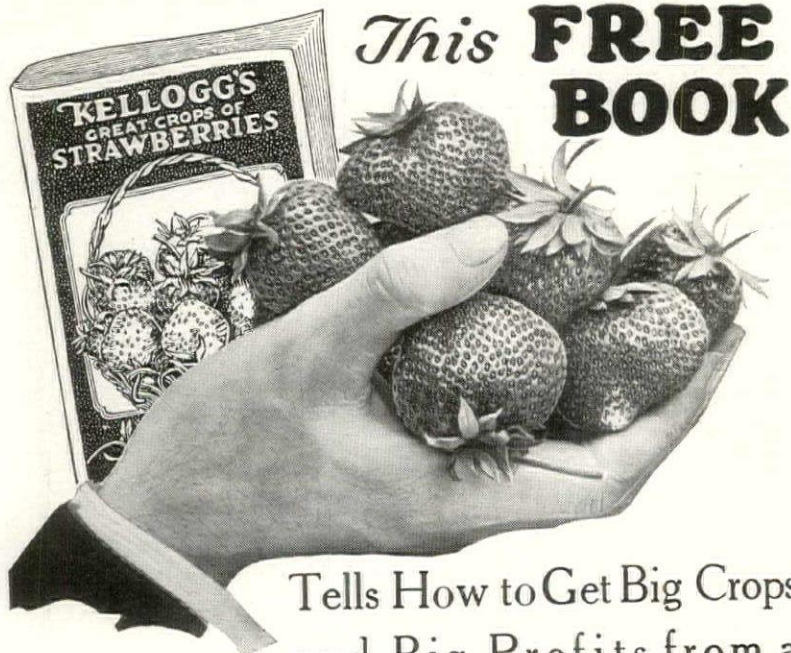
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Nothing in the plant world can quite replace the beauty and charm of Evergreens. As single specimens or in groups on the lawn, or massed around porches or foundation walls, they add an air of stately dignity to the modest suburban home, as well as the expensive estate. Every home should have a few Evergreens. The important thing is to choose the right sort and get the best quality. We have a complete stock and can meet every requirement as to variety, size, price, or quality. Let us send you our new

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Tells How to Get Big Crops and Big Profits from a

We want you to send for this big FREE Strawberry Book. Written by America's foremost strawberry grower—gives his secrets of producing the big crops and big profits. Beautifully illustrated in colors and describes fully the many world-famed varieties of Kellogg's Thorobred Strawberry Plants. It shows how more than 40 years of scientific selection and breeding has made Kellogg's Thorobreds such wonderful producers of big luscious berries.



KELLOGG'S EVERBEARING GARDEN

This low-priced Ever-bearing Strawberry Garden set this spring will give you loads of big, delicious berries this year from mid-summer until freezing weather. Next year, it will yield from early June until snow flies. This garden occupies space about 20 ft. x 25 ft. and consists of

200 PROGRESSIVE EVERBEARING PLANTS

Progressive is the old, reliable Everbearing variety. Regular price of this garden \$4.85. Our special Bargain price only

Order direct from this ad. Send check, draft or money order and garden will be delivered to you at planting time.

\$4³⁵
Delivered

New \$50,000 EVERBEARER

This book also tells about the greatest strawberry sensation of the age—Kellogg's NEW \$50,000 EVERBEARER. This "wonder berry" which you have been reading about in the newspapers is the King of all Everbearers. Words fail to convey its prolific richness. Our Big, FREE Book tells all about it. Where it came from—Who brought it—and Why it cost \$50,000.

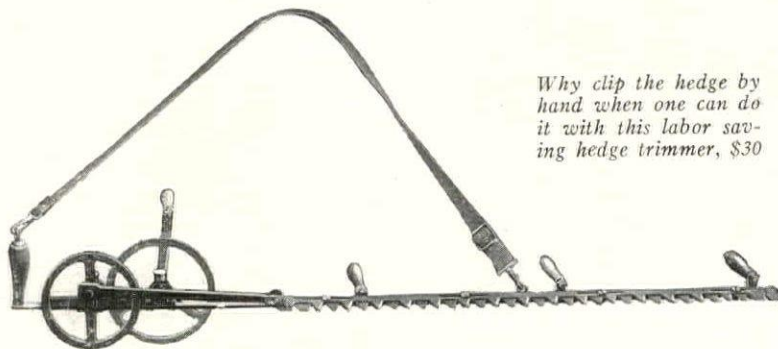
Six Bargain Strawberry Gardens

Another big feature of our book is the six (6) Special Strawberry Gardens we are offering at bargain prices—a garden to fit every need and every pocket-book. One of them is shown here. You can order direct from this ad if you wish and save time.

Send for the Book But whether you order this garden or not—don't fail to write for our FREE BOOK. Stop paying high prices for Strawberries. Get this book and see how easy it is to grow your big red berries in your own garden or back yard.

R. M. KELLOGG CO.

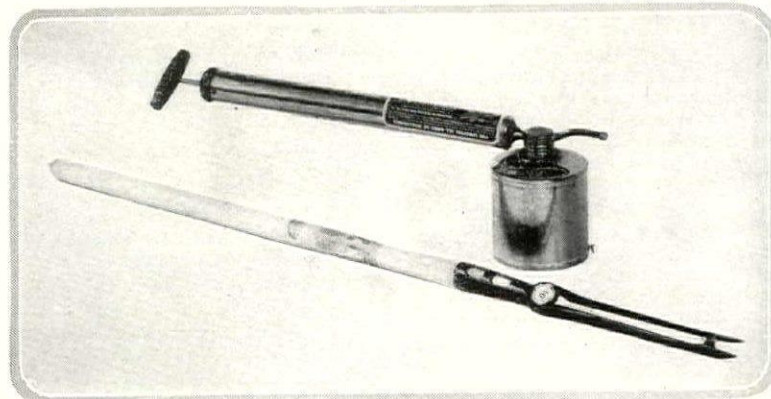
Box 2707, Three Rivers, Mich.



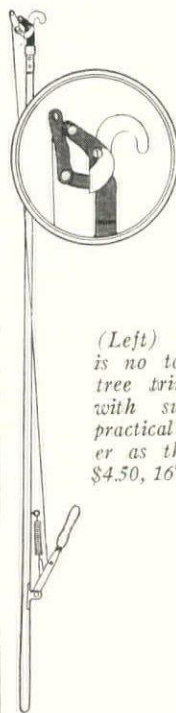
Why clip the hedge by hand when one can do it with this labor saving hedge trimmer, \$30

ACCESSORIES for the GARDEN

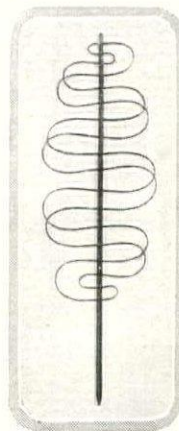
These May Be Purchased Through the House and Garden Shopping Service,
19 West 44th Street, New York City



The sprayer above will handle all solutions. Brass tank, \$1.50. A new weed puller is \$1



(Left) There is no task to tree trimming with such a practical pruner as this 12' \$4.50, 16', \$4.80

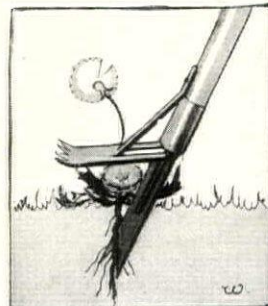


(Right) A convenient tool for pulling weeds has a sharp cutting blade and a 4' wooden handle, 85¢

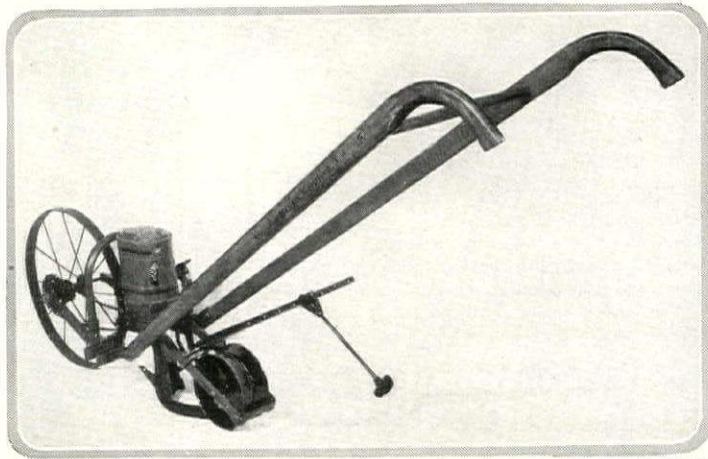


This adjustable lawn sprinkler waters evenly, circular or straight, fine or coarse, fast or slow, \$4

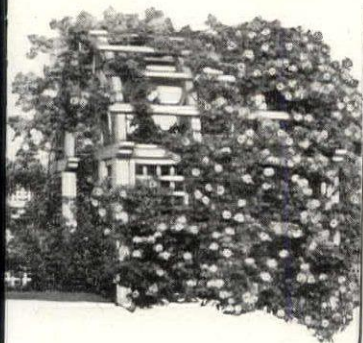
The wooden trellis at the left is painted green, 24" stick \$1. 6 for \$5



The practical tool below is a combined hill and drill seeder, double and single wheel hoe, \$17



Bradley & Merrill



Our Catalog Will
Help You Plan
a Fairyland

Sixty-nine years of rich experience is back of the offerings in our 1923 catalog. 1200 fertile acres furnish everything that you may need. Beautiful, fragrant blooms and hardy shrubs for lawn adornment. Vines for garage and arbors. Prolific seeds for the kitchen garden. Handsome shade and luscious fruit trees for that sunny vacant corner.

The Storrs & Harrison catalog is free, carefully arranged, complete. Attractive bargain combinations are listed. This worth-while book makes selection easy. It is as handy, for reference, around large country estates as the small suburban home.



Write for your copy
to-day. A post card
will bring it.

THE STORRS & HARRISON CO.
Nurserymen and Seedsmen
Painesville, Ohio



o. 238-240 Price \$12.00 net.
approx. net weight 80 lbs. 24 in. high

as Your Lawn a Bird Bath
and Other Garden Pottery?

Bird Bath where the
feathered songsters can pause
to drink and bathe will be ap-
preciated. Many designs and
sizes shown in our 1923 catalog,
as well as Window & Porch
boxes, Jardinieres, Lawn Seats,
flower Pots, etc.

Catalog sent free on request

Dealers Attention
The Wheatley Pottery Company

Manufacturers of
Garden Pottery and Faience Tile
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Woodland Enchantments

FOR nearly fifty years I have specialized in cultivating and distributing the flora of our forests. There are growing in my nursery today hundreds of thousands of these lovely woodland denizens, ready to be shipped to you with the awakening of spring. Whether you contemplate making over your woodland or are just in search of moderate quantities for your suburban estate you will find my new catalog indispensable. A copy will be mailed free to every reader of House & Garden for the asking.

Landscape Architects Please Note

For several years now I have specialized in quantity pro-
ductions of such plants as *Andromeda*, *Azalea viscosa*,
Kalmia latifolia, etc. I believe that nowhere in this coun-
try can be found either a greater stock or a better grown
plant product than that growing here. Special quotations
upon request on business stationery.

Edward Gillett

Established 1878

Fern & Flower Farm

19 Main Street

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For Delight

OUR illustrated Catalogue and Cultural Notes listing the
world's finest Dahlias, free upon request.

QUANNAPOWITT DAHLIA GARDENS
WAKEFIELD, MASSACHUSETTS

"At the service of Dahlia Lovers"

The GARDEN NURSERIES
A. E. Wohlert, Owner

Montgomery Ave.

Narberth, Pa.

Oriental Flowering Trees

CATALOGUE ON REQUEST

Other Specialties:
German Iris
Japanese Azaleas
Pachysandra terminalis
Boxwood edging

A. E. WOHLERT
Box 970
Narberth, - Penna.

Beckert's
Seeds

Introducing

(1) Beckert's New
Dahlia-Flowered
Zinnias

1923 novelties. The flowers are
of enormous size, ranging from 6 to
8 inches in diameter. Offered in 6
separate and distinct colors, making
a rare and beautiful collection,
equalled in size and beauty only by
giant Dahlias and Chrysanthemums.
They come into bloom rapidly, and
provide a plentiful supply of
gorgeous cut-flowers throughout the
summer.

The Six Are:

Exquisite—light pink and deep rose.
Monarch—deep, glowing red; enor-
mous size.
Flame—blended scarlet and orange.
Oriole—gold and orange bicolor.
Sunrise—buff and apricot blended.
Dream—deep lavender, extraordi-
nary color.

Special Offer—50 cents per packet
postpaid; choice of 3 for \$1.35;
all 6 for \$2.50. Orders filled as
long as supply lasts.

(2) Beckert's
Four O'Clocks

For the first time in Amer-
ica, offered in 5 separate
and distinct colors:

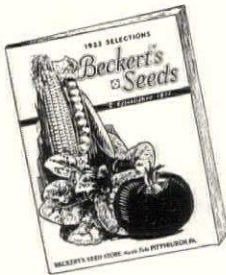
- ☐ White ☐ Rose
- ☐ Lilac ☐ Crimson
- ☐ Yellow

Flower lovers hail with delight
this achievement, by which the colors
of Four O'Clocks have been brought
under definite control. A wide
choice of color schemes and combi-
nations is thus afforded for border
and bedding purposes.

Natives of Peru, these exotic
plants thrive under adverse condi-
tions of soil and climate, producing
from June to September, an abun-
dant of flowers of a sweet and
delicate fragrance peculiarly their
own. Highly satisfactory.

Special Offer: Packets 25 cents
each postpaid; five packets \$1.00.
Please state color or colors desired.

1923 Catalog FREE



Beckert's 1923
illustrated
catalog of flower
and vegetable
seeds is a prac-
tical and valu-
able book of in-
struction on
successful flow-
er and vegetable
culture, written
especially for
the ambitious
home gardener.
Free on request.

BECKERT'S SEED STORE, Dept.
H
ESTABLISHED 1878
NORTH SIDE PITTSBURGH, PA.



Residence of Charles H. Cuno, Bradley Park, Meriden, Conn.

Almost Instant Beauty

An example of our ability to add immediate beauty to the home and grounds is shown in this picture, taken *one week* after planting.

Strong well formed evergreens such as Pyramidal Arbor Vitae, American and Japanese Hemlock, Japanese Yew, Mugho Pines, Rhododendrons, Mountain Laurel, Azalea Amoena, Leucothoe, Andromeda and Evonymus Vegeta lend beauty and dignity. Such deciduous shrubs as Forsythias, Bush Honeysuckle, Spiraeas, Ibota and Privet were artistically used.

A visit to our nurseries will show you the beauty and strength of our carefully selected stock. The prices are exceptionally reasonable. Quality is of the highest.

Write today for our 52 page illustrated catalogue. If you live east of the Mississippi, it is free; if west, please enclose 25c in stamps.

The Elm City Nursery Co.
Woodmont Nurseries, Inc.

Box 194, New Haven, Conn.

"The Pioneer Landscape Nurseries of New England"



Keep Song Birds in Your Garden

THE cheery song of robin, wren, blue bird, thrush and many others will make your garden more enjoyable. These little feathered folk will create havoc in the ranks of mosquitoes and other insect pests. Their bathing and drinking provide many hours of absorbing interest. Attract them and keep them in your garden with one of our Art Stone Bird Baths.

The soft gray tone of the bird bath illustrated adds a delightful spot of contrast on your lawn and soon attracts liberal patronage from the desirable song birds. Stands 32 inches high and bowl is 27 inches in diameter. Lasts for generations. Prices and sizes \$4.50 to \$22.50.

Send 10c in stamps for beautiful catalog G which describes bird baths, fountains, benches, and all kinds of garden furniture and ornaments. All made of permanent Architectural Art Stone, beautifully designed and executed, reasonably priced.

Architectural Decorating Company, 1600 S. Jefferson St., Chicago



Callahan Sectional Greenhouses

Are designed especially for the better class of suburban homes, city residences, parks and country clubs.

They will bring good cheer and happiness to your home the year round. Fragrant flowers—an early garden—fresh vegetables all winter—all these are yours with a Callahan Greenhouse. It isn't an expense—it's an investment that enhances the value of your property and gives you constant satisfaction.

New Low Prices

Built entirely at our new factory in completely finished unit sections, so their cost is surprisingly low. Erection costs, too, are almost eliminated because anyone can quickly and easily bolt them together. They are shipped ready to assemble—even the hardware is attached.

Only the best grade of Louisiana Cypress—the wood eternal—is used in their construction. Made in a number of styles and sizes—with a wide range of prices.

Let us send you The Greenhouse Book—it contains full details.

THE T. J. CALLAHAN CO.
1101 S. Ludlow St. Dayton, Ohio

Also manufacturers of larger Greenhouses and Ventilating Apparatus for commercial growers. If interested, ask for our Commercial Catalog.



IN SELECTING ROSES

the most important requisites are

Hardness of Wood is first in importance as this prevents your roses from dying back when planted out. Our dormant field-grown roses are hard grown and absolutely will not die back from this cause.

Budded Upon the Proper Stock. Our Los Angeles and yellow roses and the moderate growers amongst the Hybrid Teas are budded upon Rosamaine stocks that will not sucker nor shrivel. (together a great acquisition) American Roses grown on this stock received the Premier Award the Blue Ribbon of the Rose World at the International Rose Show held in Paris in 1919 and 1921. We submit therefore that the superiority of this stock as a budding medium must be conceded.

As to Size. Our Hybrid Teas are over 24 inches in height with heavy canes that will give immediate results. In Variety. We catalog only such varieties that have shown sterling merit and that are an advance on existing sorts. They are fully described in our illustrated catalog which is sent free upon request.

ROBERT EVANS HUGHES **ROSE SPECIALIST**
Williamsville, N. Y. Near Buffalo

CALIFORNIA WILD FLOWERS

GORGEOUS flowers that will bloom for you this summer with minimum care. Vacant lots, waste spaces, hillsides and gardens can easily be transformed into beauty spots that will be an unending joy all summer long.

Plant a California Wild Flower Garden!

You should know sweet "Baby Blue Eyes." The royal blue and gold of the Lupine, California Poppy and Blazing Star. Dainty Tidy Tips and Cream Cups. The Monkey Flower and brilliant Scarlet Indian Paint Brush, and the host of California wonder flowers that will make your garden radiant.

Payne's Mixture	Pkt.	Oz.	3-lb.	1-lb.
No. 1 (For open sunny places)	10c	40c	\$1.45	\$5.00
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No. 3 (Orange, yellow and Cream shades)	10c	60c	\$2.00	\$7.00
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Souvenir Collection of 12 varieties				50c.

Booklet on Care and Culture of Calif. Wild Flowers 15c.

THEODORE PAYNE, California Wild Flower Specialist.

345 South Main Street,

Los Angeles, California



Jones' Grafted Nut Trees Bear Early

You can now grow your own supply of nuts and of the very finest quality, and best of all, you can have producing trees very quickly. The tree shown on the left bore several clusters of fine nuts two years from planting.

Pecans, English Walnuts and Shagbarks are rapid growers and very beautiful trees and make ideal specimens for the lawn or home grounds. You can not plant trees that will be more interesting or more profitable.

Write today for catalogue and price list.

J. F. Jones **NUT TREE SPECIALIST**
Box H. Lancaster, Pa.



DARNELL'S DAHLIAS

were awarded the magnificent RITTER SWEEPSTAKES CUP at the last exhibition of the AMERICAN DAHLIA SOCIETY, Pennsylvania Hotel, New York

We Grow EVERY DAHLIA WORTH WHILE We Sell

Any dahlia we catalogue, does well in the East LONG ISLAND GROWN means World-Known

TRY THESE IN YOUR GARDEN

Entire collection Post Paid \$10.00

DAGMAR (Howell) Decorative Grandest Yellow \$4.00
DAKOTA (Marean) Dec. Flame \$2.00
INSULINDE (Hornsveld) Orange. The most artistic of them all \$2.50

Catalogue free to readers of House & Garden

The Dahlia Farm
"On the Sunrise Trail"

East Moriches Long Island, N. Y.

RED CROSS (Anderson) Scarlet & Gold. European judges call this the finest American dahlia \$2.50
VENUS (Marean) Cream white, suffused lavender. Fine cut flower. \$3.00 Paid at the price.



"Bridal Veil", Price reduced to \$5. for 1923

Dahlias

of distinction for 1923

SPECIAL COLLECTION

For readers of the House & Garden

Ruth Van Fleet	\$ 3.00
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Gen. Bell	3.00
Jean Anderson	1.00
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Powhatan	1.00
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Forest Loma	1.00
Stephen Loma	1.00
	\$17.50

To introduce these so beautiful new dahlias originated by myself I will send the whole to while stock lasts (in one shipment only) for the very low price of \$12.00. If sold out your money will be immediately returned. Immediate shipment, or after April 1st.

Catalogue and Guide free. Address

George L. Stillman
DAHLIA SPECIALIST
Westerly, Rhode Island.

A NURSERY of INDIVIDUALITY

ESTABLISHED in 1899, our organization has the distinctive qualifications to serve efficiently the finer American gardens from the largest assortment of evergreens with absolutely well-grown stock and sensible prices.

Practical experience on some of the finest gardens both here and abroad, assure you well-grown, intelligently cared for stock.

The nursery stands on a high level and is quite exposed. The stock from such a location is more likely to succeed than the same class of material grown under more congenial conditions.

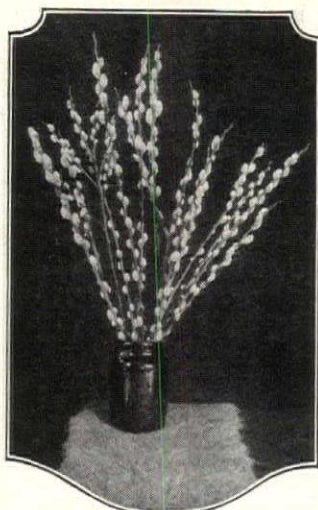
French Hemlocks, Colorado Spruce are a specialty.

If you are interested in specimen evergreens, trees, shrubs, roses, vines and herbaceous perennials, trust your order with us and invite success to your plantings.

Our catalogue on request.

Blue Hill Nurseries, Inc.
Rugged New England-Grown Nursery Stock
South Braintree, Mass.

RARE FRENCH PUSSY WILLOW



CANES

Ready for Immediate Shipment

60

Selected Canes

\$5

SHRUBS

Send Your Order for Spring Delivery

6

Large Shrubs

\$5

Surpassing in size and beauty the common form, each "pussy" is a wondrous creation of silver filaments which catch the light and shine like pearls, retaining their satiny lustre throughout the winter—a most artistic decoration.

Imagine a clump of this glorified form of the favorite old pussy willow in your garden—absolutely hardy—grows anywhere. Make sure of having this unusual and interesting winter decoration every year.

OUR LANDSCAPE ORGANIZATION

offers a unique and practical service on all matters pertaining to grounds and gardens of any size.

Send for Our Brochure "HOME"

Pfund Nursery Company

"Elmhurst Nurseries"

711 South Boulevard

Oak Park, Ill.

A Little Book About Roses for 1923 IS NOW READY

A gem of the printer's art, it is, in addition to its unequalled richness and beauty, the most helpful rose catalog published.

It is bound this year in a cover by Stern, showing, at her best, our famous flower girl standing in the open fields, rich in June's fresh greenness, with her arms full of roses—all in natural colors.

This book and the business which it so well represents are the result of many years of loving and enthusiastic devotion to the Queen of Flowers. It is mailed free to customers and intending purchasers—to anyone, without obligation to purchase (but to insure appreciation), for the nominal sum of 10c in coin or stamps.

GEORGE H. PETERSON

Rose and Peony Specialist

Box 30, Fair Lawn, N. J.

A Wagner Garden for \$10.00



A remarkable offer of 63 thrifty plants, consisting of 12 choice everblooming Roses (including one climbing variety), 25 Hardy Perennials, 12 Choice Shrubs, 12 Select Gladiolas, 2 Splendid Evergreens—all typical Wagner plants. With each order we include diagrams for planting. All plants carefully labelled.

The Wagner Catalog No. 340 gives complete list of Roses, Hardy Flowers, Bulbs, Shrubs, Trees, and Evergreens. Explains the mail service Landscape Department. Write today.

Wagner Park Nursery,
Box 30, Sidney, Ohio

Nurserymen and Landscape Gardeners



March Doings In Your Garden

A Personal Note from Henry Hicks

THIS month, if all goes well, there will be a "feel of spring" in the air. You will want to get into the garden, uncover the bulbs and some of the plants, turn under the mulch, and loosen the soil around the shrubs.

You can plant anything you choose. It is a good time to set big trees—Norway Maples, Lindens, Oaks, Evergreens, in variety.

Flowering shrubs set this month are likely to give some blooms in season. You can have all these trees and shrubs at reasonable prices, and they will be guaranteed to grow.

SOME OF THE BIG TREES AND WHAT THEY COST

	Years	Height Each	
Norway Maples, the best shade tree	15	18-22'	\$15
Linden, Small-leaved European	16	22-24'	50
Tulip Tree, beautiful tree		14'	15
Pin Oak, for street and lawn		18-20'	35
(5" diam.)		18-20'	60
White Oak, for open spaces	15	10'	5
		14'	15
Douglas Spruce		7'	20
White Pine		6'	10
Japanese Yew	14	4-5'	18
American Hemlock		4'	4
		6'	9

Smaller sizes, too, at lower prices. Larger trees for landscapes and screens in truck—and car-load quantities.

HICKS GUARANTEES THESE TREES TO LIVE AND GROW

These big trees can be planted safely this month, or any other month, by Hicks' improved methods—for "if you love a plant you can make it grow any time." Our methods are so distinct that we can guarantee trees and shrubs from our Nurseries to live and grow, no matter whether your home grounds are on Long Island or a thousand miles from here.

HOME LANDSCAPES

our popular catalogue, has been completely revised this spring, and is ready for distribution. If you wish a copy, write us.

HICKS NURSERIES

BOX H, WESTBURY, L. I. NEW YORK

HOW TO SPRAY and make it pay

GROW bigger, finer fruit and vegetables than your neighbor; have healthier trees, shrubs and flowers.

Get a low-priced Hayes Bucket, Compressed Air, Barrel or Wheelbarrow Sprayer—useful also for whitewashing, cold water painting, disinfecting chicken houses, cattle and hogs.

Hayes Wheelbarrow is a one-man outfit—extra large air chamber holds pressure while you spray one 18-ft. row. All working parts in Hayes Sprayers are non-corrosive, of brass or bronze. Prices low.



Bucket Sprayer



Barrel Sprayer

FREE SEND FOR OUR SPRAYING CHART

Makes spraying simple, easy. The only guide that gives recipes and directions on tablespoon-gallon basis for all sprays, disinfectants, whitewash, etc. A post card today will bring it.

Distributors and Dealers
in all principal cities.



Write
for
catalog.

HAYES PUMP &
PLANTER CO.
Dept. 213, Galva, Ill.
Full line of well pumps

HAYES

HAND AND POWER SPRAYERS

To Garden Lovers:

We offer, at reasonable prices:

300 Varieties Gladioli, Forty-five acres,

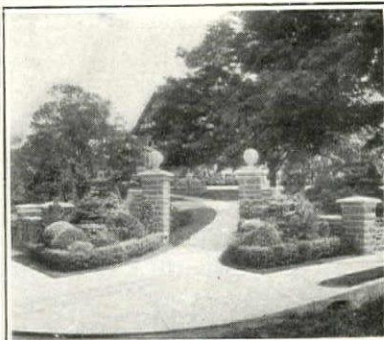
350 Varieties Perennial Plants, field grown, Twenty-five acres,

300 Varieties Perennial Seeds—The only concern in America planting perennial plants especially for seeds.

Hundreds of Annuals in Staples and reasonably priced Novelties, including the world's finest Asters, Snapdragons, Stocks, and other important items.

A good selection of Ornamentals and hardy climbers.

Write for free catalogues to
Ralph E. Huntington
Painesville, Ohio.



THAT GARDEN BOOK for which you are looking

Is described in our new Book Catalog No. 8, recognized as the most complete list of standard books relating to American gardening, the home grounds, horticulture and Countryside life. Mailed free on request.

Two of Our Leaders

Practical Landscape Gardening. Just the book for people of moderate means interested in attractive home grounds. Takes up all the elements that enter into the beautifying of properties. Replete with photographic illustrations, sketches and planting plans. 276 pages. Cloth, \$2.65, postpaid.

Garden Guide. Fourth and enlarged edition. The complete guide on every phase of garden planning, making and maintenance. Fruits, flowers, vegetables, trees, shrubs—all are covered thoroughly yet concisely. 384 pages and nearly 300 illustrations. Paper, \$1.10; cloth, \$1.65, postpaid.

An American Book on Perennials is in great request. April 1 we publish **A Little Book of Perennials.** Paper, \$1.10; cloth, \$1.35, postpaid.

A. T. De La Mare Co. Inc.
448-e West 37th St. New York City

The EARLIEST PEA the LARGEST PEA the EARLIEST Sweet Corn

CARTERS "8 WEEKS" PEA. This is the EARLIEST DWARF PEA in the world, proved not only from our own trials, but from reports received from many experts and customers. We have been advised to call it Early Six Weeks, as it often produces edible peas within this period. Vines fifteen inches high, pods good size, filled with semi-wrinkled fine flavored peas. Pt. 50c, Qt. 90c, Pk. \$6.50.

CARTERS "QUITE CONTENT" PEA. The largest pea in existence and the best for main crop. Height five to six feet, very prolific, producing pods from six to nine inches long, filled with large delicious marrowfat peas. You may "Know Beans" but you don't know Peas unless you have eaten QUITE CONTENT. Pt. 60c, Qt. \$1.00, Pk. \$7.50.

CARTERS "EARLY MARVEL" SWEET CORN. Not only is this the earliest corn procurable, maturing eating ears within 55 to 65 days of corn weather, but it has good sized ears with deep, white kernels, sweet, tender and of fine flavor. It also stays tender and fit to eat longer than any other corn. Pt. 50c, Qt. 90c, Pk. \$6.50.

Our large illustrated catalog describing the complete list of flowers and vegetables we offer, sent free on request.

**CARTERS
TESTED SEEDS INC.**

Consolidated with
J.M. Thorburn & Co.

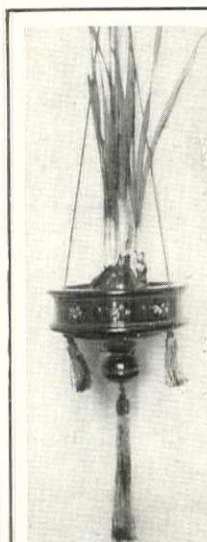
53 BARCLAY STREET
NEW YORK, N. Y.



THE HEALTH of dahlia tubers is the first assurance of a **WEALTH** of blooms, and the **HAPPINESS** of successfully growing fine dahlias.

Buy from the grower direct. Jersey field-grown tubers. Carefully selected for health and vitality. Dahlias of Quality and Distinction assure you of all this at a reasonable price, and are fully guaranteed. Send for 1923 catalogue containing the newest and best cut flower and exhibition varieties.

DAHLIADEL NURSERIES
Warren W. Maytrott Vineland, N. J.



The Bowl Pendant In Windsor Ware

an original and cheerful decorative feature and note of utility for any room of your home. Enameled in black and colors and decorated with a distinctive, hand painted old time floral band encircling the bowl. Trimmings with silk cords and tassels,—black with yellow, gray with blue, old rose with gray,—and hung from a decorated iron bracket. The Bowl measures 6¾ inches in diameter. Post Paid \$4.25. Decorated to order at small additional charge.

One of several unique productions in Windsor Ware, made by a new process of turning in composition on our Potters Outline Lathe,—Fruit and Flower Bowls, Cigarette Jars and other Jars, Candlesticks and several Electric Lamps of the smaller types.

Illustrated folder on request.

The Windsor Handicrafts

Makers of Objects of Handicraft Art

575 Farmington Avenue,

Hartford, Connecticut



Sprinkles from 18 to 80 feet!

The Double Rotary Sprinkler is now the most popular portable watering device on the market. Unsurpassed for use in parks, golf courses, estates, etc.

DOUBLE ROTARY

Shipped direct from factory at LOW FACTORY PRICE—\$12.50 East of Rockies. Money back guarantee. Delivered prepaid. Order from this advertisement, or write

The Double Rotary Sprinkler Co.
1231 Coca Cola Bldg. Kansas City, Mo



Hundreds of songs
And poems and stories
Have been written about
The little home you left
behind you
And all of them picture
that home
With a trim little lawn
Green and beautiful
And free from weeds
You may not realize it
But that trim little lawn
Is one of the reasons
Why that little home
Means what it does

SCOTT'S Lawn Seed, carefully selected and thoroughly cleaned, will produce a lawn any home can be proud of.
We will gladly send a trial package of 2½ pounds for \$1.00—(regular price 50c per lb.). And be sure to ask for "The Fable of the Well Born Blade."

O. M. SCOTT & SONS CO.
Lawn and Golf Course Seed
Marysville, Ohio



ROOKWOOD POTTERY AND TILES

Garden piece suitable for bird bath or fountain figure, made in unglazed buff finish, with buff or bright blue lining in the bowl.
Height about 32 inches; diameter about 23 inches. Price \$150.

THE ROOKWOOD POTTERY COMPANY
Rookwood Place, Cincinnati, Ohio

BESSIE BOSTON DAHLIAS

Prize Winning California Creations



California Dahlias are admittedly the best in the world today. In every Dahlia show from coast to coast you will find the *Bessie Boston* Dahlias as leading winners. They excel in size, color and stem.

24 New Varieties for 1923

Including 4 Gold Decoratives

Catalogue Gladly Sent On Request

Bessie Boston Dahlia Farm. Dept. 5
San Mateo California.



A wonderful Novelty in Flowers

THE *Celosia Chrysantheflora*, illustrated here, is a wonderful novelty that will add radiant color and beauty to your garden. The rich, velvety heads are of immense size, often 10 inches in diameter. A variety of colors—red, yellow, orange, white, light green and mauve. Excellent for long-lasting winter bouquets. This is only one of the many wonderful flowers described and illustrated in Barteldes' 56th Annual Catalog. This interesting book and Barteldes' Garden Guide—a book of value to every gardener—are free for the asking. Write today for your copies of these helpful books.

BARTELDES SEED CO.
656 Barteldes Bldg. Lawrence, Kans. Denver, Colo.

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SEEDS

Cedar Arres Gladioli

Known as "Bulbs That Bloom"
The World Over



DAWN

New Orchid-Flowering Primulinus Hybrids

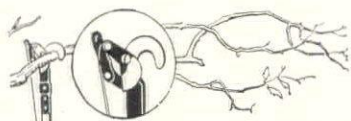
We grow our own bulbs and give you the benefit of the dealer's profit. Over thirty years of growing and selling bulbs is proof of our experience. We have originated many of the best varieties and grow all of the best originated by others.

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MRS. DR. NORTON, Delicate Pink \$3.00 doz. \$22.00 hundred
MRS. FRANK PENDLETON, Pink—1.00 doz. 7.50 hundred
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HALLEY, Salmon Pink .60 doz. 4.00 hundred
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SCHWABEN, Canary Yellow 1.00 doz. 7.50 hundred

No. 3 PRIMULINUS HYBRID SEED-LINGS Every Bulb Will Bloom
25 bulbs — \$0.75 Postpaid
100 bulbs — 3.00 Postpaid
will appeal particularly to those in search of delicate colors and dainty forms. For over thirty years the founder of this business has worked on the development of the Gladioli race. Tracy Hybrids the choicest obtainable anywhere!
Collection of 25 bulbs for \$1.25, postpaid. 100 for \$5.00, express prepaid. Any one of the collection worthy of a name.

And Tracy Dahlias, Too
We champion the Dahlia as a garden flower.

B. HAMMOND TRACY Inc.,
BOX 32 WENHAM, MASS.



Save the Trees— Pruning Made Easy

There is no task to tree trimming when you use a Bartlett Jointed Compound Lever Pruner—because it is jointed. The Bartlett comes in four foot sections that can be easily and quickly locked together to give you a trimmer of the desired length. With a Bartlett Jointed Trimmer you can reach high limbs without using a ladder and you can always snip the low branches from the proper angle.

The cutting end has a COMPOUND LEVER that will cut with ease branches up to 1¼ inches in diameter. The blades are made of crucible tool steel and only the best materials are used throughout.

Expert horticulturists everywhere endorse the Bartlett Tree Trimmer.

We also furnish this tree trimmer with one piece pole if desired, as well as making a complete line of Hand Pruners, Lopping Shears, Pruning Saws and other fine cutting tools.

Prices of Jointed Pruner
8 ft. 2 sections wt.—5 lbs. ..\$4.20
12 ft. 3 sections wt.—7 lbs. ..\$4.50
16 ft. 4 sections wt.—9 lbs. ..\$4.80

Remember the Jointed Pole requires only ¼ foot of space for storage.

Above prices F.O.B. Detroit. Include postage. If shipment is desired by parcel post.
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BARTLETT
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The new
STAYTITE

handle
identifies
Pennsylvania
Quality
Mowers

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Pep! That's what genuine Sheep Manure puts into your lawns and gardens. It supplies the HUMUS and plant food that makes soil rich and fertile, producing wonderful colors and luxuriant foliage. A convenient concentrated WAGON LOAD OF MANURE IN A WIZARD BAG. Sterilized—weed seed killed—unequaled for grass, flowers, shrubbery, berries, fruit and all vegetables.

Insist on WIZARD to be sure of genuine Sheep Manure. Ask your seedsman or write today for booklet and prices.

Don't plant without Wizard Brand

THE PULVERIZED MANURE CO.
25 UNION STOCK YARDS CHICAGO, ILL.

Colorful Annuals —for cutting

California Grown Seeds
SPECIAL COLLECTION
of one packet each of the following choice varieties of annual flower seeds in the best colors for bedding and cutting purposes: for **\$1.00** postpaid.

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Larkspur Newport Pink
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Stock Branching Light Blue
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Our 1923 general catalogue sent on application

Hallawell Seed Co.

Dept. Five,

256-8 Market St.,
San Francisco, Cal.

WORLD'S BEST DAHLIAS

100 acres of them. We are the largest Dahlia growers in the World. An enviable position made possible only by the appreciation of our superior stock by satisfied customers.

Our Catalogue tells the plain truth about the very best new creations and standard varieties. Beautifully illustrated. Eight pages in natural colors.

Write to-day for free copy

PEACOCK DAHLIA FARMS, INC.
P. O. Berlin New Jersey

Irises, Peonies and Gladioli

*Your Garden's Beauties from
April to October*



Gladioli

Importers and growers of the finest varieties. Our stock, grown in rich black sandy loam under Minnesota's rigorous climatic conditions is suitable for planting in all parts of the United States and Canada. Our large healthy roots and bulbs assure you quicker results and larger blooms. Order now.

*Send today for Free
Illustrated 1923 catalog*

Rainbow Gardens

Office 702 Commerce Bldg.

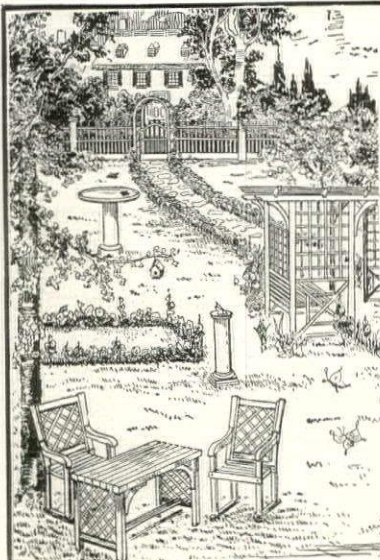
Saint Paul, Minn.



Iris



Peony



A Beautiful Yard this Year

—never so beautiful as when furnished with Garden Craft benches, chairs, lattices, pergolas, bird houses or fountains. Splendidly constructed from the best materials—yet reasonably priced on account of large production. Write for catalog and name of dealer near you.

Garden Craft

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CRYSTAL LAKE ILLINOIS

RAIN WHEN YOU WANT IT

Buy Your Rain When You Buy Your Seeds

WHEN you order the seeds, fertilizer, etc., for your garden, don't forget to do the *one thing* that will insure its success and protect your investment of time and money—order all the rain you need *delivered when you need it*.

The Skinner system is adapted to large or small gardens, perfectly simple to install, keeps the ground moist and soft, and produces earlier, better and bigger crops.

It costs you nothing to learn all about the Skinner System. Tell us how long and wide your garden is, and we will send you descriptive catalog and estimate.

THE SKINNER IRRIGATION CO.
231 Water St. Troy, Ohio



HORSFORD'S HARDY LILIES

The Regal Lily—
For Everyman's Garden

AT LAST we are ready! For several years we have been building up a stock of lovely Lilium Myriophyllum and now have thousands of bulbs of blooming sizes. Every home gardener may now enjoy the companionship of this truly regal, fragrant, floral beauty.

Lilium regale (myriophyllum) is hardy, grows on literally any well-drained soil and bears charming white flowers, shaded pink outside, with a primrose yellow throat. Blooms in July. Six for \$3.00, \$6.00 for a dozen.

Have You My Catalogue?

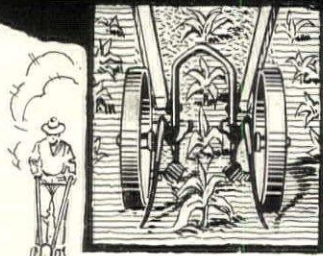
You will find it of interest. It lists Lilies, Ferns, Wild Orchids, Hardy Perennials, Trees, Shrubs and many other specialties. My stock is Hardy Vermont-grown and my descriptions are written clearly. If you do not have a copy, please write for it, mentioning House & Garden.

FRED'K H. HORSFORD

Cold Weather Plants
and Lily Bulbs

Charlotte Vermont

Planet Jr.

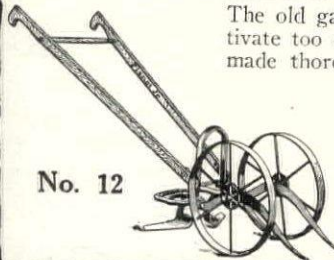


This mark and the
name "Planet Jr."
identify our products

Weeds are hungry

THEY work hard and fast. It's an endless, tedious battle to keep them down with the old hand hoe—but this Planet Jr. No. 12 double wheel hoe gives you a safe, sure upper hand. Weeds simply haven't a chance to show their heads. Until your plants are 20 inches high you can hoe both sides of a row at once, edging in and snaking out lurking weeds with precision. So light and thorough is this handy implement, you can cultivate the whole garden in a single evening, make the most of every dry day, and keep the garden trim and weed free with a minimum of handwork.

The old gardener knows that you cannot cultivate too often. Planet Jr. wheel hoes have made thorough cultivation a source of pride and pleasure to careful gardeners everywhere. They make experts of the amateur and last for years. Send for catalog.



No. 12

S. L. Allen & Co., Inc.

Dept. 34

5th & Glenwood Ave., Philadelphia

A GARDEN OF FRAGRANT NOVELTIES for 1923



DIMORPHOTECA "EKLONIS". All NEW things are OLD things, and here we have again a plant which once graced the Temple Gardens of ancient Egypt. Thirty centuries ago the Gardens of Semiramis were sown with these and now again they seem destined to play a large part in Garden and floral decoration. From the deep green spatulate leaves spring long stiff stalks bearing large star shaped dazzling white flowers, with a deep blue disk, in sizes 3-3 1/2 inches across.

A TRIO OF LOVELY LUPINS

DOWNER'S MARVELLOUS HYBRIDS. The seed of these sown outdoors in early Spring produce splendid bold spikes of flowers the first year comprising every hue and colour imaginable from the softest tints of pink, pale lilac, or blue, to the rich dusty gold, golden bronze and purples.

REGAL LUPIN "FIREFLY". The nearest approach to scarlet yet attained in lupins. Rich green foliage and flowers in long racemes of fiery rose.

REGAL LUPIN "LAVENDER QUEEN". Clear pure lavender iridescent with rose.

A TRIO OF CHARMING POPPIES

PAPAYER NUDICAULE "Giant Sunbeam". Flowers borne on long thick stems in tints such as maize, cream and various tones of rose. A most WONDERFUL POPPY.

SHIRLEY POPPY "BLUEBELL". Charming for the Blue Garden. In shades of Azure blue, lavender and grey blue.

PAPAYER ORIENTALE "PEARLS OF THE ORIENT". Great silken flowers with huge waved and fluted petals, in rich shades of rose, lilac and mauve.

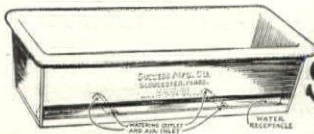
Any of the above per pkt. 50c. 1/2 pkt. 30c. Trial pkt. 15c.

Our 1923 "SPRING BOOK"
lists RARE seeds from every
clime, RARE bulbs, etc.—Copy
on request

H. H. BERGER & CO.

Estb. 46 Yrs.

70 WARREN ST., NEW YORK



SUCCESS STEEL PLANT BOX

Self-Watering ~ Insures Success

For Windows, Porches, Ledges, Sun Parlors, etc.

You can have beautiful flowering plants all summer and indoors all winter by using the Success Plant Box. New scientific principle. Keeps plants flourishing. Strong, rust-proof, durable, lasts for years. It does not leak or drip. Requires little attention; light, easily handled.

Water reservoir keeps soil right and gives air circulation that makes plants thrive.

Anybody can grow plants to perfection with the Success Plant Box.

Made in various sizes, costs less than lumber for inferior boxes.

Sold by florists, seed, department, hardware and furniture stores.

Illustrated circular on request. Sold direct from factory where dealers cannot supply.

Success Manufacturing Co.
18 Sargent St.
Gloucester, Mass.

Manufacturers of Success All Steel
Refrigerators.

"Little Wonder" Hedge Trimmer

Trade Mark Reg. U. S. Pat. Off.

with Lawn-Trimming Attachment

Saves Time,
Labor, Money



Hedge Trimmer



Lawn Trimmer

Thousands of estates are today using this wonderful device that revolutionizes hedge trimming. Does away with the old-fashioned shears. Cuts 5 to 10 times as fast as by hand, and cuts more evenly. Adjustments and attachments to suit every shape of hedge. Works so easily that a woman can operate it.

Also equipped with frame that quickly converts it into a splendid lawn trimmer—in fact a Junior mower.

30-in. one-man machine	\$25	40-in. one-man machine	\$30
40-in. two-man machine	\$27	60-in. two-man machine	\$35
Lawn Clipper Attachment for Hedge Trimmers	\$15 extra		
30-inch Lawn Clipper complete			
with no hedge trimming attachments	\$35		
40-inch Lawn Clipper complete			
with no hedge trimming attachments	\$40		

If your dealer cannot supply you, we will ship to you prepaid from the factory.

Write for descriptive circular and testimonials.

DETCO MANUFACTURING COMPANY

(Formerly John C. Dettra Machine Co.)

OAKS, PENNSYLVANIA

Selling Agents—Eddy Garden Service, Paradise, Lancaster County, Pa.

Pulverized Sheep Manure Best for Lawns and Gardens



Nature's Own Plant Food

Great for Lawns, Grass Plots, etc. Especially good for gardens, etc., where quick and certain results are necessary. Used extensively for small fruits, shrubbery, etc.

Sheep's Head Brand is rich in nitrogen, phosphoric acid and potash, also adds humus. Guaranteed absolutely clean—nothing but sheep manure—free from weed seeds which are killed by heat. Dried and pulverized for easy application. Circular and prices on request.

Natural Guano Company, 804 River Street
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Garden Houses
Lattice Fences
Garden Furniture
Plant-Tubs & Ferneries
Sun-Dials & Gazing Globes

Hartmann Sanders Co.

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PERGOLAS and ARBORS

This advertisement shows only a few of suggestive features from our catalog containing several hundred distinctive garden decorations. When writing for copy, enclose 30c and ask for catalogue "P-34."



Frost-Superior VEGETABLE CRUTCHES



HERE'S a brand new garden help, not a mere fad but a practical necessity.

You'll welcome Vegetable Crutches and agree that their cost is simply nothing compared to their convenience because—

They end all bother of hunting up wooden stakes for your vining plants and flowers.

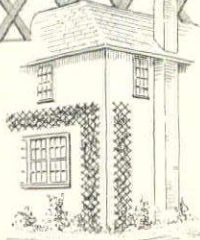
Strong metal stakes for tomatoes, peas, beans, rose-bushes—anything that needs training and supporting. Ringed and crimped for twine or wire. Lengths 3 to 5 feet. Last a lifetime. Cost 55c to 95c a dozen. Get a trial dozen today and see how much they improve your temper and your garden's appearance.

* If your favorite hardware dealer doesn't have Vegetable Crutches, send us your order and his name.



THE FROST-SUPERIOR
FENCE CO.
WARREN, OHIO

Here's Your Trellis- Ready-Built



The Sturdy, Convenient and Practical

CRAKERJAC
TRADE MARK
ADJUSTABLE TRELLIS



DON'T build a trellis—we've built one for you! The CRAKERJAC MANIFOLD ADJUSTABLE TRELLIS is sturdily built of basswood and finished in green or white creosote stain to prevent decay. Extends to 18 ft. long by 2 ft. high—or 6 ft. long by 4 ft. high.

Readily Adaptable

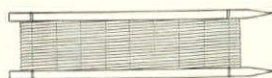
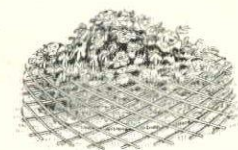
Many pleasing effects may be produced with this trellis: as a background for flowers, as an archway, as support for vines and for many other purposes. Adds grace and beauty to the home surroundings.

Our Prices Make Building Unnecessary

CRAKERJAC in its convenient, ready-to-use form, is sold so reasonably that you need not think of having a trellis built. Prices, including two 6-ft. posts on which trellis is fastened:

No. 1. Cr. Green finish	\$3.00
No. 1. Wh. White finish	3.25

At your dealer or direct
from us; transportation paid.



EVAN I. REED MFG. CO.
Danville Illinois

SWEET PEAS

"The World's Best"

MY catalogue of Sweet Peas is the most comprehensive of its kind, describing 150 distinct and meritorious varieties.

A collection of fifteen of the finest Giant Spencers, which produce flowers of largest size, exquisite beauty and fragrance, with the widest range of color. Prepaid \$3.00.

"AMAZON"

The World's Best Aster

Beautiful flesh pink in color, comparing in form and size to a medium sized Japanese Chrysanthemum. A giantess among asters. Packets 50c and \$1.00.

CHARLES ELLIOTT

Specialist in Sweet Peas
of Superior Qualities

Park Ridge

Illinois



Flower
Grass
Vegetable

SEEDS

You may depend on the High Quality of our Flower, Vegetable and Grass Seeds. They come only from the most reliable sources in Europe and America.

Send for Catalogue

Eighty pages of valuable information about Seeds, Bulbs, Plants, Tools, Fertilizers and Insecticides—with Planting Table and Planting Calendar.

SPECIAL A collection of 10 Best Varieties Sweet Peas, Spencer Type, Orchid Flowering Sent on receipt of 75c.

HOSEA WATERER SEED AND BULB
IMPORTER

628 Chestnut Street, Philadelphia, Pa. "Everything for Garden and Greenhouse"

MOISTURE—supplied automatically and regularly by the Brooks System—in the form of a misty spray (like an English fog) enables Mother Nature to work miracles in beautifying your Lawns and Gardens. Saves water, hose and hours of time. Send for Legend that gives you detailed data and names of nationally-known clients. Any special information desired will be given gladly and promptly. Act now and when hot weather comes again, the Brooks System will keep your grounds fresh, green, cool and wonderfully inviting!



Brooks Lawn Sprinkling System
Frost-Proof-Underground

Write for your copy of LEGEND

JOHN A. BROOKS, Manufacturer

10226-A Woodward Avenue, Detroit, Michigan

Improve and Beautify Your Lawn

by using a "Clean Edge" Trimmer
on the borders and edges

A TIME and LABOR SAVER—
WORKS LIKE A SHEAR

Trims around trees, shrubbery, walks, and edges. No cutting of turf or preparation of any kind required. A necessity on even the smallest lawns.

Price \$8.50

(\$9.50 West of the Mississippi)

The Heimann Trimmer Co.
Urbana, Ohio

Make your Garden a Present



HOUSE & GARDEN'S

BOOK OF GARDENS

Contains 400 illustrations of special flower types, plans and suggestions for landscape work, a complete gardener's calendar of the year's activities, planting and spraying tables, and a portfolio of beautiful gardens in various sections of the United States. 127 pages.

\$5 Post paid

from House & Garden, 19 W. 44th St., New York



CAN WE HELP?

For the benefit of its readers, House & Garden maintains a Garden Information Service. No charge is made for its advice.

We can tell you where to buy your plants and garden materials—if you cannot find what you want in our advertising pages. We can make suggestions for laying out grounds—and tell you where to get definite plans. We can offer advice on the care of lawns, beds and orchards—and suggest where to purchase what is needed for their protection.

How You Can Help Us to Help You

You can tell us just what is the present condition of that part of your garden on which you seek advice.

If you want suggestions for laying out grounds, you can send photographs or scaled plans.

Generally, you can give us the full information we need to send you intelligent advice.

Now we understand each other. And—what can we do for you?

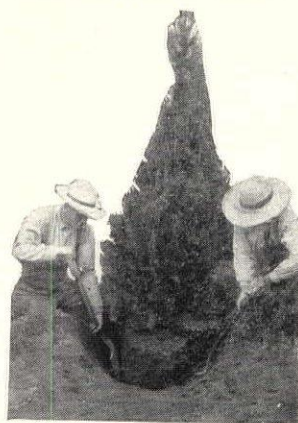
HOUSE & GARDEN'S
Garden Information Service

19 W. 44th St., New York

The Tang of Salt Air Years of Ceaseless Care

EVERGREENS love the tang of salt air, as it whistles through our Nurseries, fresh from the broad Atlantic. They rejoice too in the deep loamy soil which encourages a tremendous root growth. Every individual specimen enjoys sufficient light to encourage a dense, even growth of foliage from base to tip. Years of watchful care bring Harrison's Evergreens to near-perfection. Every specimen is dug by hand so as to preserve the natural earth about the roots, the whole being securely sewed in burlap.

Harrison's Evergreens will fulfill your fondest expectations. Every specimen is guaranteed to be symmetrical and well-shaped. Your choice from more than thirty varieties. Sizes, up to 12 ft.



We preserve the root balls when digging Evergreens

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Every House and Garden reader needs our "Home Beautifying Suggestions" and "Planters' Guide." Together, they cover the whole subject of home and orchard planting. Write for your copies, free. Get our low prices.

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7 to 8 ft.,	\$8.00
Norway Spruce,	
7 to 8 ft.,	5.00
American Arbor Vitae,	
8 to 10 ft.,	8.00
Plume-like Retinospora	
7 to 8 ft.,	8.00
Canadian Hemlock	
6 to 7 ft.,	7.00

Harrison's Nurseries
J.G. HARRISON & SONS PROPRIETORS

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Berlin

Maryland

"Largest Growers of Fruit Trees in the World"



Why Don't You Grow Water Lilies?

They grow and bloom just as well in a half-barrel or tub as in the largest pool. Their needs are so simple; sunlight, water and earth. You can easily get everything necessary. Then in a month or two after planting, you will have

The Best Novelty For Any Garden

Nothing else will attract so much attention. Few flowers are more beautiful and none are more distinct and "different" than these Lilies.

Our Catalog gives full directions, describes a great number of Water Lilies and Japanese Iris, with several illustrations in natural colors. A copy will be sent free to any person who supplies his name and address.

**The Independence
Nurseries Co.,**

Box H

Independence, Ohio.



G & R Hardy Roses

On their own roots. Sure to bloom. True to name.

RAINBOW COLLECTION

5 Hardy Roses. Different colors.

Pilgrim—Best Rose, Pink.

Legion—Rich Crimson.

Helen Good—Pink and Cream.

Mad. Butterfly—Coppery Pink.

Florence Forrester—Snow White, tinted Lemon.

Mailed postpaid to any address. Guaranteed to reach you in good growing condition.

All G & R roses are grown in large quantities, which enables us to sell them at moderate prices.

Over four million roses sold by us last year.

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6 Gladioli—Cream of newer sorts, selected colors...\$1.00

6 Liberty Iris—Choice colors—assorted...\$1.00

3 Decorative Ferns—New sorts, Roosevelt, Teddy

Junior and Ostrich Plume...\$1.00

Dahlias. A very select list which includes the most desirable colors: Ino.

Vanamaker—Gorgeous Pink, Decorative. SPRINGFIELD—Salmon Pink.

Cactus. Rene Cayeaux—Scarlet, Cactus, ARABELLA—Yellow, tipped Pink,

Show...\$1.00

Special Offer—The 6 collections mailed postpaid for...\$5.00

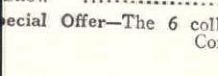
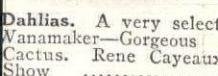
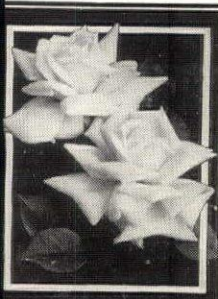
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The Good & Reese Co.

Largest Rose growers in the World

Springfield, Ohio.

pt. 805



Get Acquainted With GILSON Garden Tools

Keep your garden at the highest state of cultivation with the help of

The Gilson Dubl-Duti (Cultivator-Weeder). Greatest of all scuffle hoes in that it makes every stroke count. Absolutely safe in the hands of even smallest gardeners. Comes in 3 sizes, in both hand and wheel style.

The Kil-Weed Cultivator. Has scientifically shaped teeth, adjustable to width of rows. Especially adapted for pulverizing of the soil, besides cutting all the weeds. Comes in 3 sizes, in both hand and wheel hoe. If your seed or hardware store does not handle the Gilson Line, write us; also write to-day for "Better Crops Through Cultivation"

Besides describing the entire line of Gilson Garden Tools in detail, it gives many useful hints on soil cultivation designed to help the gardener get the most out of his work. Mailed free on request.

J. E. GILSON CO. 400 Valley Street, Port Washington, Wis.



PEONIES & IRIS



All the newest European and American Introductions

Highest awards by American Peony Society.

Highest awards by American Iris Society.

Movilla plants are unsurpassed for vigor and freedom of bloom.

Descriptive catalog compiled by James Boyd and John C. Wister—30c. Price list free.

MOVILLA GARDENS
HAVERFORD PENNSYLVANIA

SPECIAL OFFER of TESTED SEEDS

If you write now for our 1923 Catalogue, we will send the famous HENDERSON Collection of seeds—one packet each of Ponderosa Tomato, Eclipse Beet, White Tipped Scarlet Radish, Henderson's invincible Asters, Henderson's Brilliant Mixture Poppies, Giant Waved Spencer Sweet Peas.

HOW TO GET THEM

Simply state where you saw this advertisement, enclose ten cents for mailing the Catalogue, "Everything for the Garden," and the seeds will be sent without extra charge.

EMPTY ENVELOPE COUNTS FOR CASH

These tested seeds come in a coupon envelope which, emptied and returned, will be accepted as a 25-cent cash payment on any order amounting to \$1.00 or more. Don't delay; write at once.

1923 CATALOGUE NOW READY

Bigger and better than ever, the most beautiful and complete horticultural publication of the year, a book of

176 pages

16 color pages. Over 1000 beautiful engravings showing actual results. A mine of valuable garden information. Send today for this helpful guide to a better garden and the special seed collection.



PETER HENDERSON & Co.

35 & 37
CORTLANDT ST.
New York City



Those schooled in the ownership of fine cars pay high tribute to LaFayette performance.

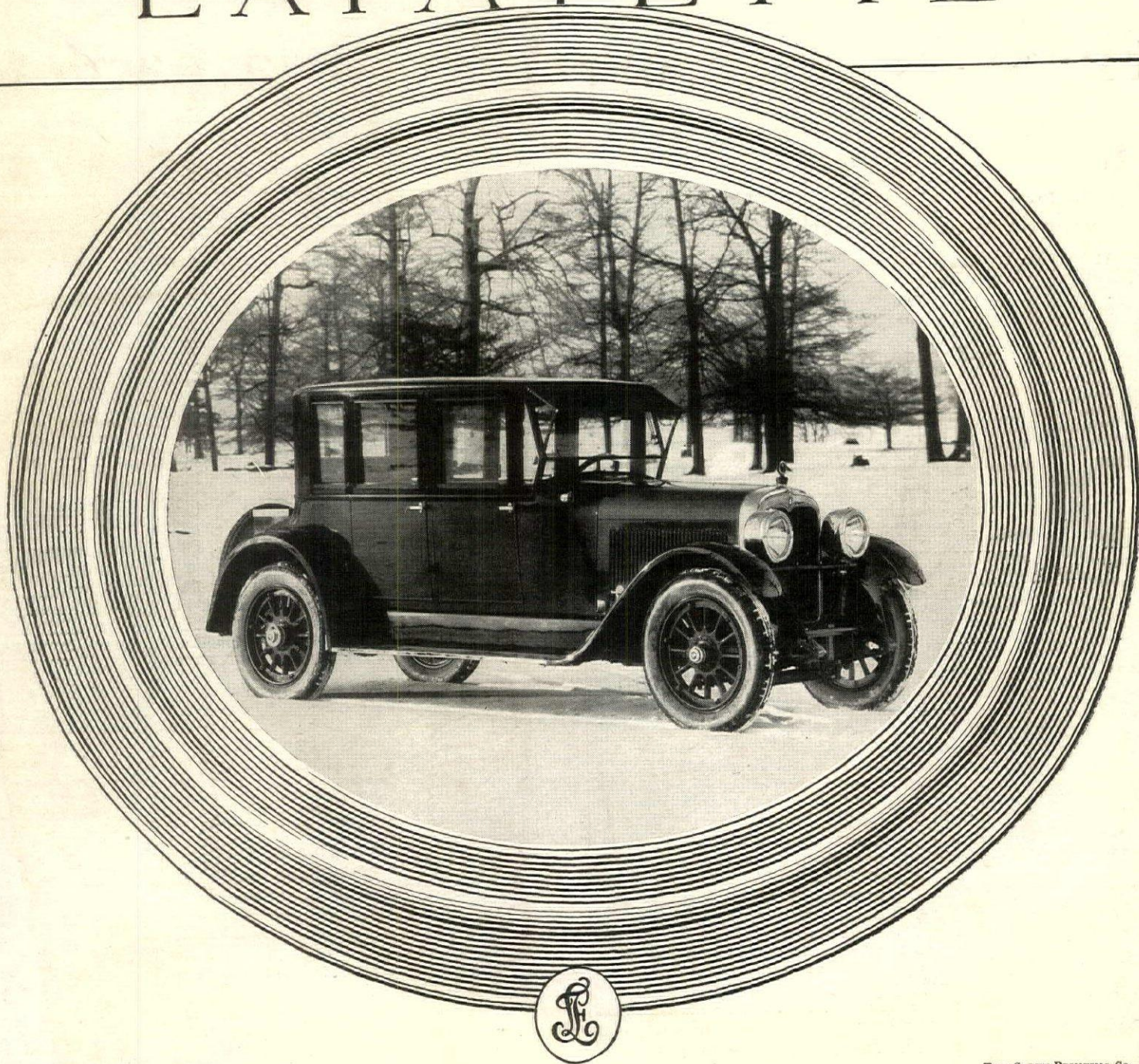
They frankly state it to be the finest in all their motoring experience.

And as is its due, this performance has its proper setting.

Each phase of LaFayette design and workmanship marks it as a car built for those who love fine things.

LAFAYETTE MOTORS CORPORATION
MILWAUKEE, WISCONSIN

LAFAYETTE



Luscious Blueberries

Not the ordinary small, seedy berries to which you are accustomed, but superbly large, full-fleshed fruits, abounding in rich, creamy juice of delectable flavor.

Of all small fruits, the berries from our nursery-grown bushes are the best for pie. And real blueberry pie is—well, need we say more?

Blueberry plants are absolutely hardy, decorative in autumn and winter, grow rapidly and bear profusely. They are easy to plant and care for, and they last for a hundred years. If they are planted early this spring they will probably produce fruit before autumn. *Complete cultural directions in catalogue.*



Finest Fruits From Your Own Garden

Home-grown fruits are coming into their own. Like the vegetables which you raise in your own garden, they are fresher, finer flavored and in every respect far superior to any you can buy from your dealer.

Theirs is the quality of mellow sunshine and soft breezes, of cool morning dews and drifting fragrance of flowers. They are a pleasure and a practical essential which give the crowning touch to any garden, be it great or small.

The World's Best Trees and Plants for the Home Grounds are Described in our 1923 Catalogue, in color. Sent to readers of House & Garden upon request.

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In a crystal bowl on the breakfast table, sugar bowl and creamer beside them—and the hottest summer day is started right.

Cool and fragrant, deliciously fresh from your own garden, there whence the wren's ecstatic song pours in through the open windows, they delight the senses of sight, taste and smell.

Golden Queen is the best of the yellow sorts. Color, size, firmness, habit of growth, fruit-bearing, all unite to make a variety *par excellence* for the berry connoisseur's garden.

Orders placed immediately will be shipped in time for you to enjoy this spring and gather the golden globes of luscious raspberries all summer.



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